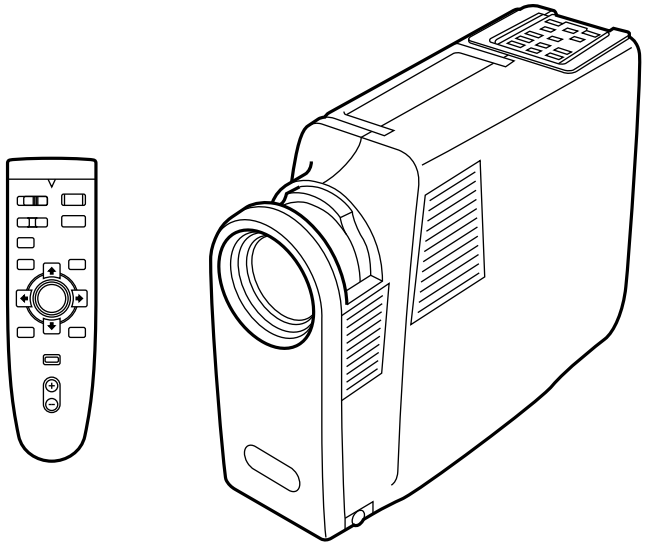
SERVICE MANUAL

MODEL	DEST.
VPL-XC50U	US/CND
VPL-XC50E	AEP
VPL-XC50M	AEP

MODEL
RM-PJM600



LCD DATA PROJECTOR

SONY

⚠WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injuly, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ! SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

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SONY

3-865-593-**11** (1)

LCD Data Projector

Operating Instructions ____ GB
Mode d'emploi ____ FR
Manual de instrucciones ____ ES

VPL-XC50U
VPL-XC50E
VPL-XC50M

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SECTION 1
OPERATING INSTRUCTIONS

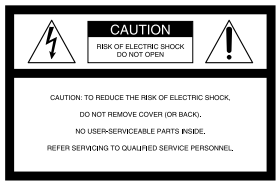
This section is extracted from operation manual.

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

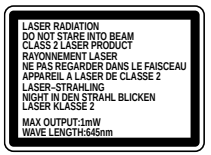
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For the customers in the USA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

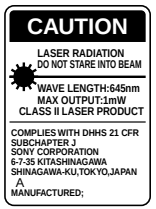
For the customers of VPL-XC50E/XC50M



This label is located on the rear of the Remote Commander.

This label is located on the side of the Remote Commander.

For the customers of VPL-XC50U



This label is located on the rear of the Remote Commander.

This label is located on the rear of the Remote Commander.

Laser light shines out of this window.

Caution

use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes

- Do not aim the laser at people or not look into the laser transmitter.
- When the Remote Commander causes malfunction, consult with qualified Sony personnel. We change the Remote Commander as new one according to the guarantee.

For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

For the customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Voor de klanten in Nederland

Bij dit produkt zijn batterijen geleverd. Wanneer deze leeg zijn, moet u ze niet weggooien maar inleveren als KCA.

The socket-outlet should be installed near the equipment and be easily accessible.

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Precautions

On safety

- Check that the operating voltage of your unit is identical with the voltage of your local power supply. If voltage adaptation is required, consult with qualified Sony personnel.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it further.
- Unplug the unit from the wall outlet if it is not to be used for several days.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The wall outlet should be near the unit and easily accessible.
- The unit is not disconnected to the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Do not look into the lens while the lamp is on.
- Do not aim the laser at people or not look into the laser transmitter.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.
- Be careful not to catch your fingers by the adjuster when you lift up the projector. Do not push hard on the top of the projector with the adjuster out.

On illumination

- To obtain the best picture, the front of the screen should not be exposed to direct lighting or sunlight.
- Ceiling-mounted spot lighting is recommended. Use a cover over fluorescent lamps to avoid lowering the contrast ratio.
- Cover any windows that face the screen with opaque draperies.
- It is desirable to install the projector in a room where floor and walls are not of light-reflecting material. If the floor and walls are of reflecting material, it is recommended that the carpet and wall paper be changed to a dark color.

On preventing internal heat build-up

After you turn off the power with the I / ⏻ key on the Remote Commander or on the control panel, do not disconnect the unit from the wall outlet while the cooling fan is still running.

Caution

The projector is equipped with ventilation holes (intake) on the right side and ventilation holes (exhaust) on both sides and rear. Do not block or place anything near these holes, or internal heat build-up may occur, causing picture degradation or damage to the projector.

On cleaning

- To keep the cabinet looking new, periodically clean it with a soft cloth. Stubborn stains may be removed with a cloth lightly dampened with a mild detergent solution. Never use strong solvents, such as thinner, benzene, or abrasive cleansers, since these will damage the cabinet.
- Avoid touching the lens. To remove dust on the lens, use a soft dry cloth. Do not use a damp cloth, detergent solution, or thinner.
- Clean the filter at regular intervals.

On repacking

- Save the original shipping carton and packing material; they will come in handy if you ever have to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.

Features

High portability

- **Light weight/small size**
  This projector has come to miniaturized to 3.7 kg (8 lb 3 oz) of mass by adopting magnesium die-casting body. And a carrying handle is equipped with the projector. You can easily carry it with your computer.

High brightness, high picture quality

- **High brightness**
  Adopting the new developed optical system and the 120 W UHP lamp allow high brightness (light output 600 ANSI lumen) and excellent uniformity on the picture.
- **High resolution**
  Three 0.9-inch, about 790,000 pixel XGA panels with micro-lens arrays provide a resolution of 1024 × 768 dots for RGB input and 750 horizontal TV lines for video input.

Simple setup, easy presentation

- **Simple setup with external equipment**
  This projector is preset for 38 kinds of input signals. You can project images from an external signal source just by connecting the equipment with the supplied cable and pushing the APA key.
- **Remote Commander with mouse control and laser pointer functions**
  You can operate a computer with the Remote Commander since the unit has a build-in mouse receiver. For your presentation, you can use the laser pointer built in the Remote Commander as well.

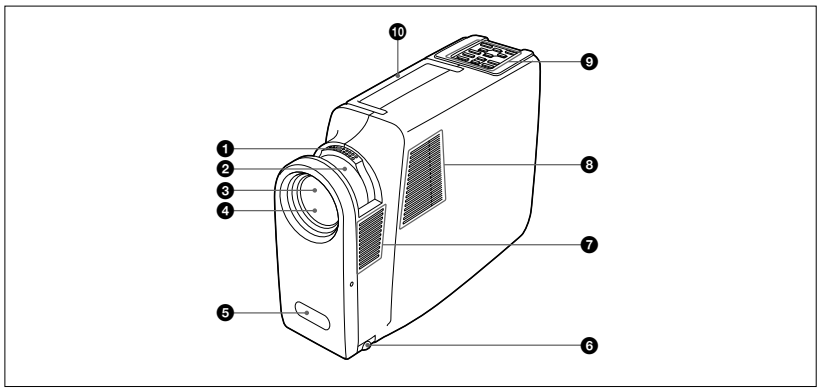
Accepts various input signals

- **Scan converter loaded**
  This projector has a build-in scan converter which converts the input signal within 1024 × 768 dots.
- **Compatible input signals**
  This projector accepts video signals of the composite, S video, and component as well as the 15k RGB, VGA[1)], SVGA[1)], XGA[1)], and SXGA[1)] signals, which all can be displayed.
- **Compatible with five color systems**
  NTSC, PAL, SECAM, NTSC 4.43[2)], or PAL-M color system can be selected automatically or manually.

1) VGA, SVGA, XGA, and SXGA are registered trademarks of the International Business Machines Corporation, U.S.A.
2) NTSC 4.43 is the color system used when playing back a video recorded on NTSC on a NTSC 4.43 system VCR.

Location and Function of Controls

Front/Left Side



❶ Zoom ring
Adjusts the size of the picture.

❷ Focus ring
Adjusts the picture focus.

❸ Lens
Open the lens shutter before projection.

❹ Lens shutter

❺ Front remote control detector

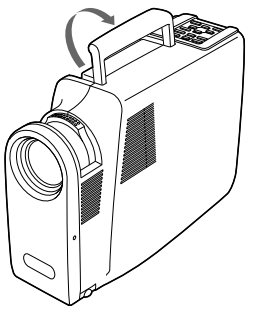
❻ Adjuster
Used to keep the projector level if it is installed on an uneven surface.
For details on how to use the adjusters, see "How to use the adjuster" on page 13 (GB).

❼ Ventilation holes (exhaust)

❽ Left speaker

❾ Control panel
For details, see "Control panel" on page 10 (GB).

❿ Carrying handle
Pull up the handle from the projector for carrying.

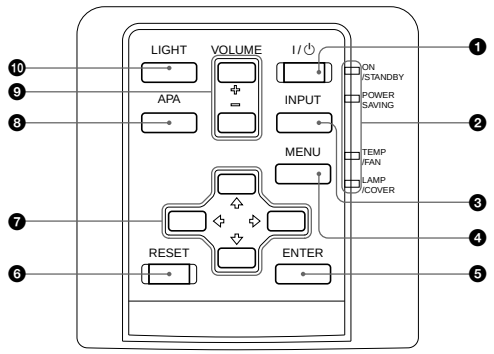


Notes

- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.

Location and Function of Controls

Control panel



❶ I / ⏻ (on / standby) key
Turns on and off the projector when the projector is in the standby mode. The ON/STANDBY indicator lights in green when the power is turned on.
When turning off the power, press the I / ⏻ key twice following the message on the screen, or press and hold the key for about one second.
For details on steps for turning off the power, see "To turn off the power" on page 24 (GB).

❷ Indicators
ON/STANDBY: Lights up or flashes under the following conditions:
- Lights in red when the AC power cord is plugged into the wall outlet. Once in the standby mode, you can turn on the projector with the I / ⏻ key on the Remote Commander or on the control panel.
- Lights in green when the power is turned on.
- Flashes in green while the cooling fan runs after turning off the power with the I / ⏻ key. The fan runs for about 90 seconds after turning off the power.
  The ON/STANDBY indicator flashes quickly for the first 30 seconds.
  During this time, you cannot turn the power back on with the I / ⏻ key.

POWER SAVING: Lights up when the projector is in the power saving mode. When POWER SAVING in the SET SETTING menu is set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes. Although the lamp goes out, the cooling fan keeps running. In the power saving mode, any key does not function for the first 30 seconds. The power saving mode is canceled when a signal is input or any key is pressed.

TEMP (Temperature)/FAN: Lights up or flashes under the following conditions:
- Lights up when temperature inside the projector becomes unusually high.
- Flashes when the fan is broken.

LAMP/COVER: Lights up or flashes under the following conditions:
- Lights up when the lamp has reached the end of its life or becomes a high temperature.
- Flashes when the lamp cover or air filter cover is not secured firmly.

For details on the LAMP/COVER and the TEMP/FAN indicators, see page 39 (GB).

❸ INPUT key
Selects the input signal. Each time you press the key, the input signal switches between video/audio input and INPUT A connector.

❹ MENU key
Displays the on-screen menu. Press again to clear the menu.

❺ ENTER key
Enters the settings of items in the menu system.

❻ RESET key
Resets the value of an item back to its factory preset value. This key functions when the menu or a setting item is displayed on the screen.

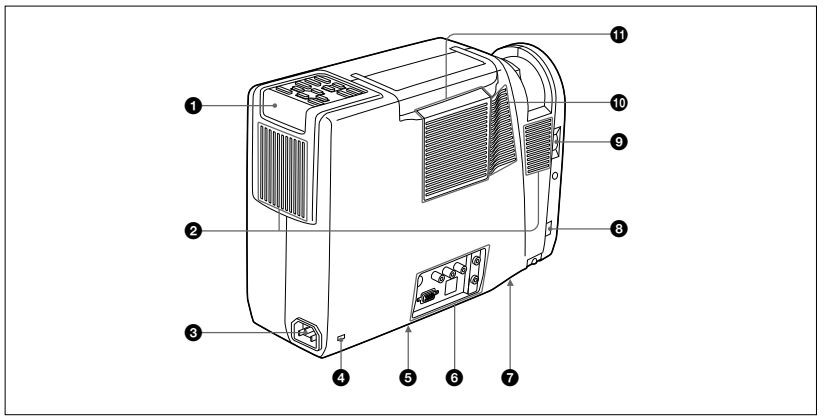
❼ Arrow keys (↑/↓/←/→)
Used to select the menu or to make various adjustments.

❽ APA (Auto Pixel Alignment) key
Adjusts a picture to be projected clearest automatically while a signal from the computer is input.

❾ VOLUME +/– keys
Adjust the volume of the built-in speakers and output level of the AUDIO OUT jack.
+ : Increases the volume.
– : Decreases the volume.

❿ LIGHT key
Lights the back lighting (orange) for the keys on the control panel when the power is turned on. Press again to turn off the back lighting.

Rear/Right Side/Bottom



1 Rear remote control detector

2 Ventilation holes (exhaust)

3 AC IN socket
Connects the supplied AC power cord.

4 Security lock
Connects to an optional security cable (Kensington's).

The security lock corresponds to Kensington's MicroSaver Security System.
If you have any comment, contact
Kensington
2853 Campus Drive, San Mates, CA 94403
U.S.A.
Tel: 800-535-4242: extension 3348
Home page address: http://www.kensington.com/

5 75Ω termination switch (bottom)
Normally set to ON. Set it to OFF when the projector is connected to a computer or a monitor.

6 Connector panel
For details, see page 14 (GB).

7 Lamp cover (bottom)

8 Adjuster button

9 Lens shutter dial
Turn the dial upward to open the lens shutter.

10 Right speaker

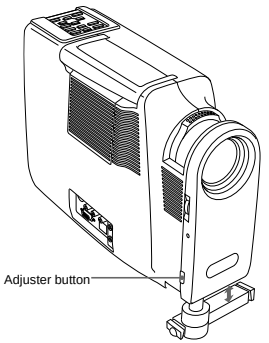
11 Ventilation holes (intake)/air filter cover

Notes
- Do not place anything near the ventilation holes as it may cause internal heat build-up.
- Do not place your hand or objects near the ventilation holes — the air coming out is hot.

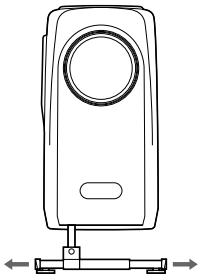
How to use the adjuster

To adjust height
While lifting the projector, adjust the height so that the projector becomes level.

Press the adjuster button while lifting the projector to adjust the height.



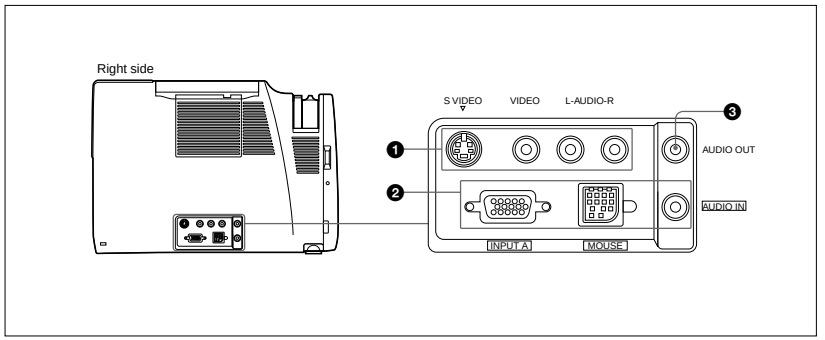
To stand the projector firmly
The adjuster can be extended outwards to support the projector firmly.



Notes
- Be careful not to let the projector down on your fingers.
- Do not push hard on the top of the projector with the adjusters out.
- If the adjuster is not stretched out toward right and left sides of the projector, the unit may be overbalanced.

Location and Function of Controls

Connector panel



❶ Video/audio input connector
Connect to external video equipment such as a VCR.

S VIDEO (mini DIN 4-pin): Connects to the S video output (Y/C video output) of a video equipment.

VIDEO (phono type): Connects to the composite video output of video equipment.

Note

If you connect video equipment to both the S VIDEO and VIDEO jacks, the signal from the S VIDEO jack is selected. When projecting the picture via the VIDEO jack, be sure not to connect a cable to the S VIDEO jack.

AUDIO input L (MONO)/R jacks (phono type): Connect to the audio output of equipment. For stereo equipment, use both the L and R jacks; for monaural equipment, use the L (MONO) jack only.

❷ INPUT A connector
Connect to external equipment such as a computer. You can control the mouse signal with the Remote Commander.

INPUT A (HD D-sub 15-pin, female): Connects to the monitor output on a computer using the supplied cable. When inputting a component or, 15k RGB signal, use the optional cable.

MOUSE (13-pin): Connects to the mouse port on a computer to control the mouse function using the supplied mouse cable.

AUDIO IN (stereo minijack): Connects to the audio output on a computer to input the audio signal.

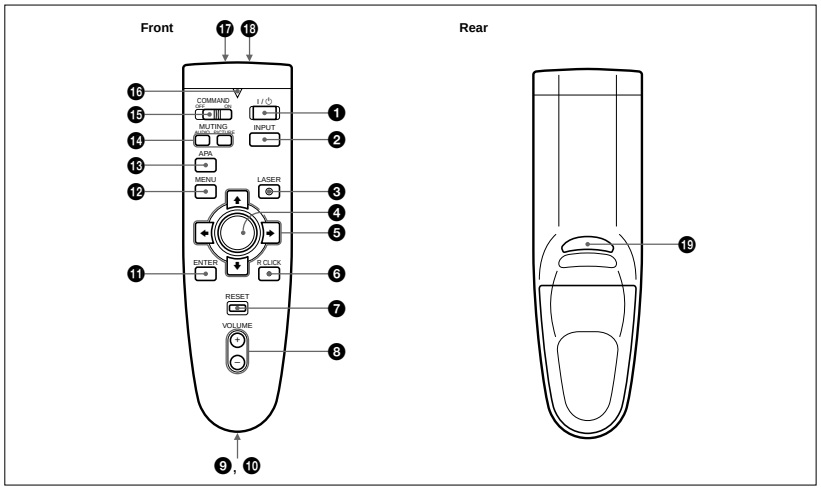
❸ AUDIO OUT jack (stereo minijack)
Connects to external active speakers.
The volume of the speakers can be controlled by the VOLUME keys on the Remote Commander or the control panel.

Remote Commander

The keys which have the same names as on the control panel function identically.
You can control a connected computer using the Remote Commander.
For details, see "Connecting with a Computer" on page 18 (GB).

Notes on laser beam

- **Do not look into the laser transmitter.**
- **Do not aim the laser at people.**



❶ I / ⏻ key

❷ INPUT key

❸ LASER key
Emits laser beam from the laser transmitter when you press this key.

❹ Joy stick
Functions as a mouse of a computer connected to the unit.

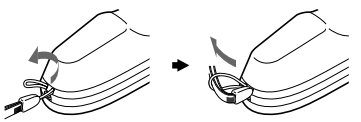
❺ Arrow keys (↑/↓/←/→)

❻ R CLICK key
Functions as a right button on a mouse. When connected to a Macintosh[1)] computer, the R CLICK key functions as a mouse button.

❼ RESET key

❽ VOLUME +/– keys

❾ Strap holder
Attaches the supplied strap.



(Continued)

1) Macintosh is a registered trademark of Apple Computer, Inc.

⑩ CONTROL S OUT jack (stereo minijack)
This jack does not operated with this unit.

Note
The Remote Commander does not function if the cable is connected to this jack.

⑪ ENTER key

⑫ MENU key

⑬ APA (Auto Pixel Alignment) key

⑭ MUTING keys
Cut off the picture and sound.
PICTURE: Cuts off the picture. Press again to restore the picture.
AUDIO: Cuts off the sound from speakers and AUDIO OUT jack. Press again or press the VOLUME + key to restore the sound.

⑮ COMMAND ON/OFF switch
When this switch is set to OFF, no key on the Remote Commander function. This saves the battery power.

⑯ Transmission indicator
Lights up when you press a key on the Remote Commander.
This indicator does not light up when you use the laser pointer.

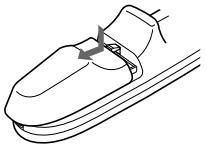
⑰ Infrared transmitter

⑱ Laser transmitter

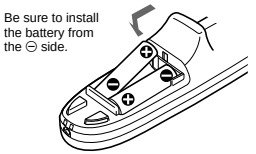
⑲ L CLICK key
Functions as a left button on a mouse. When connected to a Macintosh computer, the L CLICK key functions as a mouse button.

Battery installation

1 Push and slide to open the lid.



2 Install the two size AA (R6) batteries (supplied) with the correct polarity.



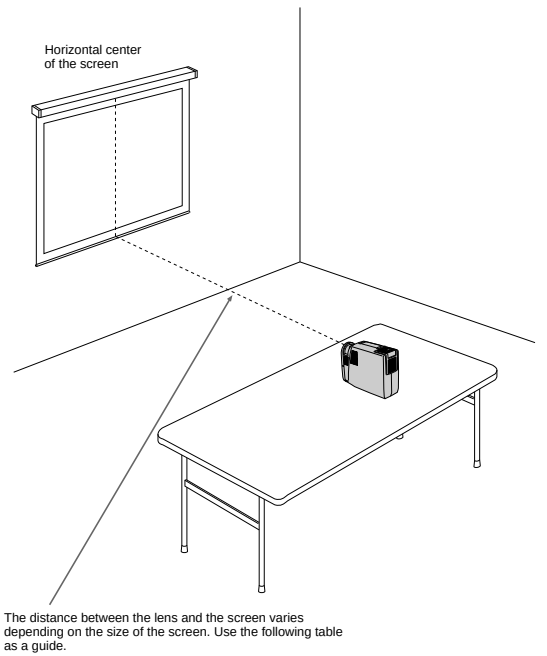
3 Replace the lid.

Notes on batteries
- Make sure that the battery orientation is correct when inserting batteries.
- Do not mix an old battery with a new one, or different types of batteries.
- If you will not use the Remote Commander for a long time, remove the batteries to avoid damage from battery leakage. If batteries have leaked, remove them, wipe the battery compartment dry and replace the batteries with new ones.

Notes on Remote Commander operation
- Make sure that there is nothing to obstruct the infrared beam between the Remote Commander and the remote control detector on the projector.
- The operation range is limited. The shorter the distance between the Remote Commander and the projector is, the wider the angle within which the commander can control the projector.

Installing the Projector

This section describes the installation arrangements for installing the projector.



The distance between the lens and the screen varies depending on the size of the screen. Use the following table as a guide.

Unit: m (feet)

Screen size (inches)		40	60	80	100	120	150
Distance	Minimum	1.5 (5.1)	2.4 (7.7)	3.2 (10.4)	4.0 (13.0)	4.8 (15.7)	6.0 (19.7)
	Maximum	1.8 (6.0)	2.8 (9.1)	3.7 (12.2)	4.7 (15.3)	5.6 (18.4)	7.0 (23.0)

For detailed information on installation measurements, see page 33 (GB).

Connecting

Connecting with a Computer

This section describes how to connect the projector with a computer.
For details on how to connect a VCR, 15k RGB, or component equipment, see page 20 (GB).

When the projector is connected to a computer, you can control the mouse of a computer by the Remote Commander.
The R/L CLICK keys and joy stick function as follows.

Note

Make sure that there is nothing to obstruct the infrared beam between the Remote Commander and the remoter control detector on the projector.

Key and joy stick	Function	
	IBM PC/AT[a] compatible, Serial	Macintosh
R CLICK (front)	Right button	Mouse button
L CLICK (rear)	Left button	Mouse button
Joy stick	Corresponds with the movements of the mouse	

a) IBM PC/AT is a registered trademark of International Business Machines Corporation, U.S.A.

Also refer to the instruction manual of equipment to be connected.

Notes

- This unit accepts the VGA, SVGA, XGA, and SXGA signals. However, we recommend you to set the output mode of your computer to the XGA mode for the external monitor.
- If you set your computer, such as a notebook type IBM PC/AT compatible, to output the signal to both the display of your computer and the external monitor, the picture of the external monitor may not appear properly. In such cases, set the output mode of your computer to output the signal to only the external monitor.
  For details, refer to the operating instructions supplied with your computer.

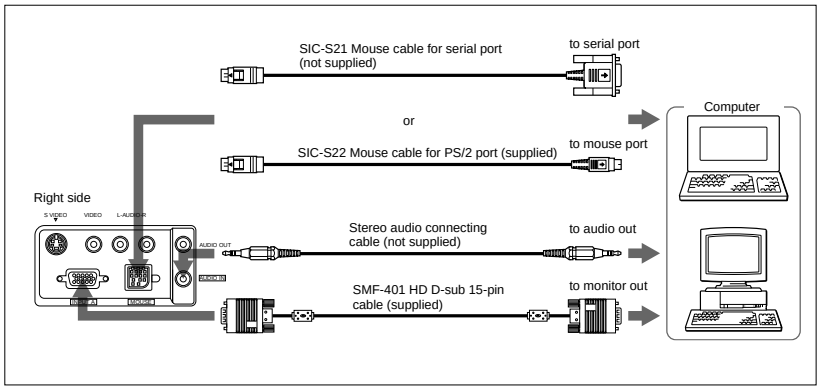
When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.

Note

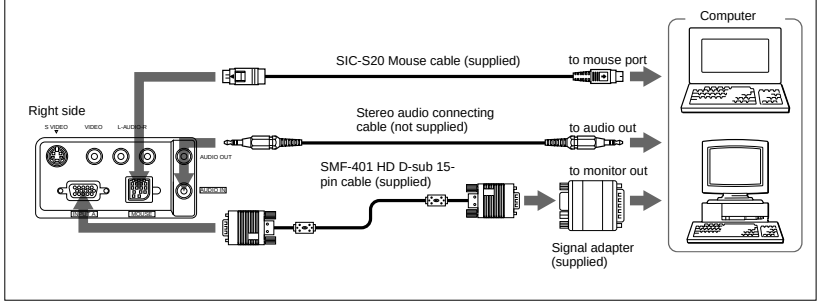
Supplied mouse cables may not work properly according to your computer.

When connecting with an IBM PC/AT compatible computer



When connecting with a Macintosh computer

For details on the DIP switch setting of the adapter, see page 42 (GB).



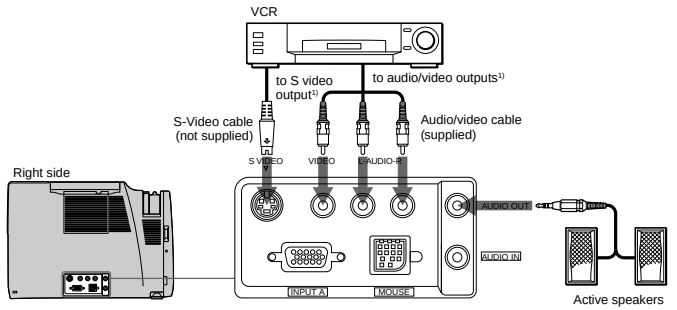
http://getMANUAL.com

Connecting with a VCR/15k RGB/Component Equipment

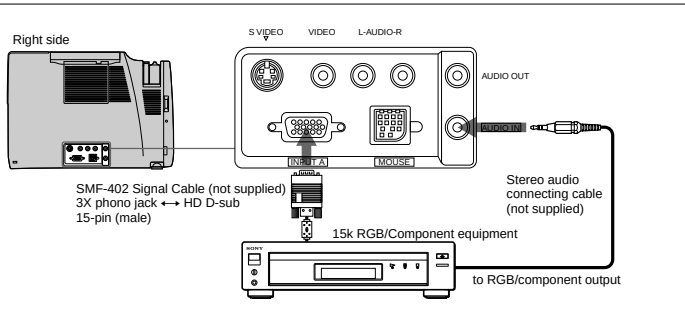
This section describes how to connect the projector with a VCR, external active speakers, and 15k RGB/component equipment.
For details on how to connect a computer, see page 18 (GB).
Also refer to the instruction manuals of the equipment to be connected.

When making connections, be sure to:

- turn off all equipment before making any connections.
- use the proper cables for each connection.
- insert the plugs of the cables properly; plugs that are not fully inserted often generate noise. When pulling out a cable, be sure to pull it out from the plug, not the cable itself.



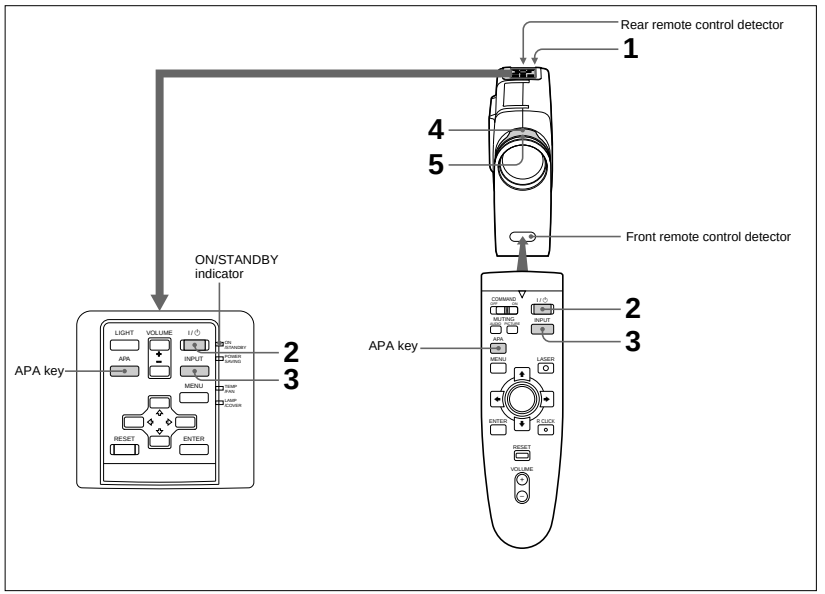
1) When both the S VIDEO and VIDEO jacks are connected to the external equipment, the input signal from the S VIDEO jack is selected.



Notes

- Set the aspect ratio using ASPECT in the INPUT SETTING menu according to the input signal.
- When you connect the unit to 15k RGB/component video equipment, select RGB or component with the INPUT-A setting in the SET SETTING menu.
- Use the composite sync signal when you input the external sync signal from 15k RGB/component equipment.

Projecting



1 After all equipment is connected completely, plug the AC power cord into the wall outlet.

The ON/STANDBY indicator lights in red and the projector goes into the standby mode.

2 Press the I / ⏻ key on the Remote Commander or on the control panel.

The ON/STANDBY indicator lights in green.

3 Turn on equipment connected to the projector. Press the INPUT key on the Remote Commander or on the control panel to select the input source.

INPUT-A: Selects audio and video signals input from the INPUT A connector.

VIDEO: Selects audio and video signals input from the video/audio input connector.
(If you connect to both the S VIDEO and VIDEO jacks, the signal from the S VIDEO jack is selected.)

4 Turn the zoom ring to adjust the size of the picture.

5 Turn the focus ring to adjust the focus.

Note

Do not look into the lens when the projector lamp is on.

To	Press
Adjust the volume	the VOLUME +/– keys on the control panel or on the Remoter Commander.
Cut off the sound	the AUDIO MUTING key on the Remote Commander. To restore the sound, press the AUDIO MUTING key again or press the VOLUME + key.
Cut off the picture	the PICTURE MUTING key on the Remote Commander. To restore the picture, press the PICTURE MUTING key again.

To get the clearest picture

You can get the suitable picture when a signal from the computer is input. Press the APA key on the Remote Commander or on the control panel. The picture is automatically adjusted to be projected clearest.

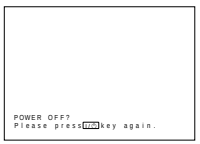
Notes

- Adjust the signal when the still picture is displayed on the screen.
- If you switch the input signal or re-connect a computer, press the APA key again to get the suitable picture.
- "ADJUSTING" appears on the screen. Press the APA key again during the adjustment to restore the original screen.
- "Complete!" appears on the screen when the picture is adjusted properly. The picture may not be adjusted properly depending on the kinds of input signals.
- Adjust DOT PHASE in the INPUT SETTING menu when you adjust the picture manually.
  For details on DOT PHASE, see page 28 (GB).

To turn off the power

1 Press the I / ⏻ key on the Remote Commander or on the control panel.

The following message appears to confirm if you want to turn off the power.



Note

The message will disappear if you press any key except the I / ⏻ key, or if you do not press any key for five seconds.

2 Press the I / ⏻ key on the Remote Commander or on the control panel again.

The ON/STANDBY indicator flashes in green and the fan continues to run for about 90 seconds to reduce the internal heat. Also, the ON/STANDBY indicator flashes quickly for the first 30 seconds. During this time, you will not be able to turn the power back on with the I / ⏻ key.

3 Unplug the AC power cord from the wall outlet after the fan stops running and the ON/STANDBY indicator lights in red.

When you cannot confirm the on-screen message

When you cannot confirm the on-screen message in a certain condition, you can turn off the power by holding the I / ⏻ key on the Remote Commander or on the control panel for about one second.

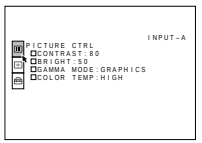
Note

Do not unplug the AC power cord while the fan is still running; otherwise, the fan will stop although the internal heat is still high, leading to breakdown of the projector.

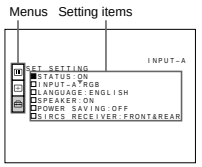
Using the MENU

The projector is equipped with an on-screen menu for making various adjustments and settings.
To select the language used in the menu, see page 31 (GB).

1 Press the MENU key.
The menu display appears.
The menu presently selected is highlighted in blue.



2 Use the ↑ or ↓ key to select a menu, then press the → or ENTER key.
The selected menu appears.



3 Make setting or adjustment on an item.
For details on setting individual items, see the relevant menu pages.

To clear the menu display

Press the MENU key.
The menu display disappears automatically if no key is pressed for one minute.

To reset items that have been adjusted

Press the RESET key.
"Complete!" appears on the screen and the settings appearing on the screen will be reset to their factory preset values.
Items which can be reset are:
- "CONTRAST", "BRIGHT", "COLOR", "HUE", and "SHARP" in the PICTURE CTRL menu
- "DOT PHASE", "SIZE", and "SHIFT" in the INPUT SETTING menu.

About the memory of the settings

The settings are automatically stored in the projector memory.

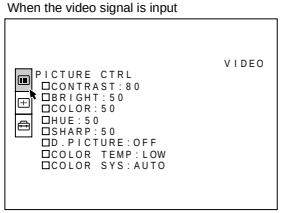
When no signal is input

When there is no input signal, "NO INPUT–Cannot adjust this item." appears on the screen, and each item cannot be adjusted.

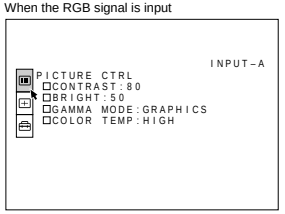
The PICTURE CTRL Menu

The PICTURE CTRL (control) menu is used for adjusting the picture.
Unadjustable items depending on the input signal are not displayed in the menu.

When the video signal is input



When the RGB signal is input



Operation

1. Select an item

Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Adjust an item

- When changing the adjustment level:
  To increase the number, press the ↑ or → key.
  To decrease the number, press the ↓ or ← key.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or ↓ key to change the setting.
  Press the ENTER or ← key to restore the original screen.

CONTRAST

Adjusts the picture contrast.

The higher the setting, the greater the contrast.
The lower the setting, the lower the contrast.

BRIGHT

Adjusts the picture brightness.

The higher the setting, the brighter the picture.
The lower the setting, the darker the picture.

COLOR

Adjusts color intensity.

The higher the setting, the greater the intensity.
The lower the setting, the lower the intensity.

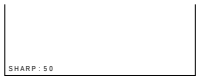
HUE

Adjusts skin tones.

A higher the setting, the picture becomes greenish.
A lower the setting, the picture becomes purplish.

SHARP

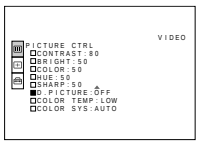
Adjusts the picture sharpness.



The higher the setting, the sharper the picture.
The lower the setting, the softer the picture.

D. (Dynamic) PICTURE

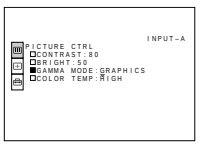
Emphasizes the black color.



ON: Emphasizes the black color to produce a bolder "dynamic" picture.
OFF: Reproduces the dark portions of the picture accurately, in accordance with the source signal.

GAMMA MODE

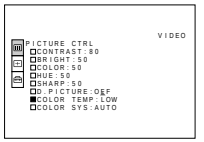
Selects a gamma correction curve.



GRAPHICS: Improves the reproduction of half tones. Photos can be reproduced in natural tones.
TEXT: Contrasts black and white. Suitable for images that contains lots of text.

COLOR TEMP

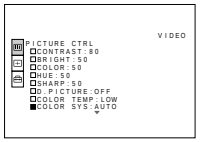
Adjusts the color temperature.



HIGH: Makes the white color bluish.
LOW: Makes the white color reddish.

COLOR SYS (System)

Selects the color system of the input signal.



Normally, set to AUTO.
If the picture is distorted or colorless, select the color system according to the input signal.

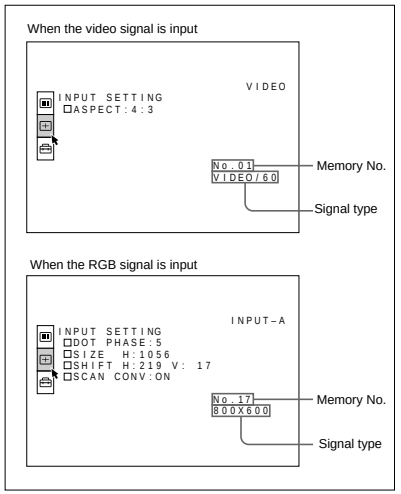
Input signals and adjustable/setting items

Item	Input signal			
	Video or S video (Y/C)	Component	RGB	B&W
CONTRAST	●	●	●	●
BRIGHT	●	●	●	●
COLOR	●	●	–	–
HUE	● (NTSC3.58/ 4.43 only)	–	–	–
SHARP	●	●	–	●
D. PICTURE	●	●	–	●
GAMMA MODE	–	–	●	–
COLOR TEMP	●	●	●	●
COLOR SYS	●	–	–	●

● : Adjustable/can be set
– : Not adjustable/can not be set

The INPUT SETTING Menu

The INPUT SETTING menu is used to adjust the input signal.
Unadjustable items depending on the input signal are not displayed in the menu.



Operation

1. Select an item
Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

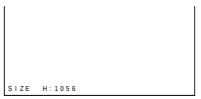
2. Adjust an item
- When changing the adjustment level:
  To increase the number, press the ↑ or → key.
  To decrease the number, press the ↓ or ← key.
  Press the ENTER key to restore the original screen.
- When changing the setting:
  Press the ↑ or ↓ key to change the setting.
  Press the ENTER or ← key to restore the original screen.

DOT PHASE

Adjusts the dot phase of the LCD panel and the signal input from the INPUT A connector. Adjust the picture further for finer picture after the picture is adjusted with pressing the APA key.
Adjust the picture to where it looks clearest.

SIZE

Adjusts the horizontal size of picture input from the INPUT A connector.



The higher the setting, the larger the horizontal size of the picture.
The lower the setting, the smaller the horizontal size of the picture. Adjust the setting according to the dots of the input signal. For details on the suitable value for the preset signals, see page 30 (GB).

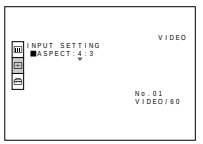
SHIFT

Adjusts the position of the picture input from the INPUT A connector.

H adjusts the horizontal position of the picture.
V adjusts the vertical position of the picture.
As the setting for H increases, the picture moves to the right, and as the setting decreases, the picture moves to the left.
As the setting for V increases, the picture moves up, and as the setting decreases, the picture moves down.
Use the ← or the → key to adjust the horizontal position and the ↑ and ↓ key for the vertical position.

ASPECT

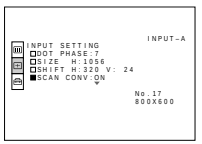
Sets the aspect ratio of the picture.
When inputting 16:9 (squeezed) signal from equipment such as a DVD player, set to 16:9.



4:3: When the picture with ratio 4:3 is input.
16:9: When the picture with ratio 16:9 (squeezed) is input.

SCAN CONV (Scan converter)

Converts the signal to display the picture according to the screen size.



ON: Displays the picture according to the screen size. The picture will lose some clarity.
OFF: Displays the picture while matching one pixel of input picture element to that of the LCD. The picture will be clear but the picture size will be smaller.

Note

When the XGA or SXGA signal is input, this item will not be displayed.

Input signals and adjustable/setting items

Item	Input signal			
	Video or S video (Y/C)	15k RGB/ Component	RGB	B&W
DOT PHASE	–	–	●	–
SIZE	–	–	●	–
SHIFT	–	–	●	–
ASPECT	●	●	–	●
SCAN CONV	–	–	●	–

● : Adjustable/can be set
– : Not adjustable/can not be set

About the preset memory No.

This projector has 38 kinds of preset data for input signals for INPUT-A (the preset memory). The memory number of the current input signal and the signal type are displayed when the preset signal is input. This projector automatically detects the signal type. When the signal is registered to the preset memory, a suitable picture is displayed on the screen according to the signal type. You can adjust the picture through the INPUT SETTING menu.
This projector also has 20 kinds of user memories for INPUT-A. When an unpreset signal is input for the first time, memory number is displayed as 00. If the input signal is adjusted in the INPUT SETTING menu, the setting via INPUT-A is stored under the memory number 51 to 70. When more than 20 user memories are registered for INPUT-A, the newest memory is automatically stored over the oldest one.

The INPUT SETTING Menu

Preset signals

Memory No.	Preset signal		fH (kHz)	fV (Hz)	Sync	SIZE
1	Video 60 Hz		15.734	59.940	H-neg V-neg	
2	Video 50 Hz		15.625	50.000	H-neg V-neg	
3	15k RGB/Component 60 Hz		15.734	59.940	H-neg V-neg	
4	15k RGB/Component 50 Hz		15.625	50.000	H-neg V-neg	
5	HDTV		33.750	60.000	H-neg V-neg	
6	640 × 350	VGA mode 1	31.469	70.086	H-pos V-neg	800
7		VGA VESA[a)] 85 Hz	37.861	85.080	H-pos V-neg	832
8	640 × 400	PC-9801[b)] Normal	24.823	56.416	H-neg V-neg	848
9		VGA mode 2	31.469	70.086	H-neg V-pos	800
10		VGA VESA 85 Hz	37.861	85.080	H-neg V-pos	832
11	640 × 480	VGA mode 3	31.469	59.940	H-neg V-neg	800
12		Macintosh 13"	35.000	66.667	H-neg V-neg	864
13		VGA VESA 72 Hz	37.861	72.809	H-neg V-neg	832
14		VGA VESA 75 Hz	37.500	75.000	H-neg V-neg	840
15		VGA VESA 85 Hz	43.269	85.008	H-neg V-neg	832
16	800 × 600	SVGA VESA 56 Hz	35.156	56.250	H-pos V-pos	1024
17		SVGA VESA 60 Hz	37.879	60.317	H-pos V-pos	1056
18		SVGA VESA 72 Hz	48.077	72.188	H-pos V-pos	1040
19		SVGA VESA 75 Hz	46.875	75.000	H-pos V-pos	1056
20		SVGA VESA 85 Hz	53.674	85.061	H-pos V-pos	1048
21	832 × 624	Macintosh 16"	49.724	74.550	H-neg V-neg	1152
22	1024 × 768	XGA VESA 43 Hz	35.522	43.479	H-pos V-pos	1264
23		XGA VESA 60 Hz	48.363	60.004	H-neg V-neg	1344
24		XGA VESA 70 Hz	56.476	70.069	H-neg V-neg	1328
25		XGA VESA 75 Hz	60.023	75.029	H-pos V-pos	1312
26		XGA VESA 85 Hz	68.677	84.997	H-pos V-pos	1376
27	1152 × 864	SXGA VESA 70 Hz	63.995	70.016	H-pos V-pos	1472
28		SXGA VESA 75 Hz	67.500	75.000	H-pos V-pos	1600
29		SXGA VESA 85 Hz	77.487	85.057	H-pos V-pos	1568
30	1152 × 900	Sunmicro LO	61.795	65.960	H-neg V-neg	1504
31		Sunmicro HI	71.713	76.047	H-neg V-neg	1472
32	1280 × 960	SXGA VESA 60 Hz	60.000	60.000	H-pos V-pos	1800
33		SXGA VESA 75 Hz	75.000	75.000	H-pos V-pos	1728
34	1280 × 1024	SXGA VESA 43 Hz	46.433	43.436	H-pos V-pos	1696
35		SGI-5	53.316	50.062	H-neg V-neg	1680
36		SXGA VESA 60 Hz	63.974	60.013	H-pos V-pos	1696
37		SXGA VESA 75 Hz	79.976	75.025	H-pos V-pos	1688
38		SXGA VESA 85 Hz	91.146	85.024	H-pos V-pos	1296

a) VESA is a registered trademark of Video Electronics Standard Association.
b) PC-98 is a registered trademark of NEC Corporation.

Since the data is recalled from the preset memory about the following signals, you can use these preset data by adjusting SIZE. Make fine adjustment by adjusting SHIFT.

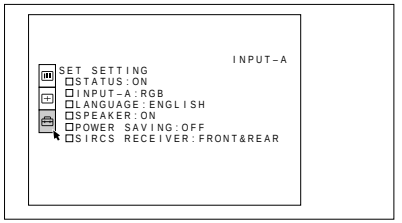
Signal	Memory No.	SIZE
Super Mac-2	23	1312
SGI-1	23	1320
Macintosh 19"	25	1328
Macintosh 21"	28	1456
Sony News	36	1708
PC-9821 1280 × 1024	36	1600
WS Sunmicro	37	1664

Note

When the aspect ratio of input signal is other than 4:3, a part of the screen is displayed in black.

The SET SETTING Menu

The SET SETTING menu is used for changing the settings of the projector.



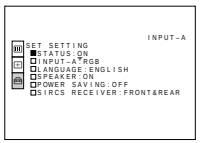
Operation

1. Select an item
Use the ↑ or ↓ key to select the item, then press the → or ENTER key.

2. Change the setting
Press the ↑ or ↓ key to change the setting.
To restore the original screen, press the ENTER or ← key.

STATUS (on-screen display)

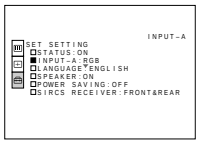
Sets up the on-screen display.



ON: Shows all of the on-screen displays.
OFF: Turns off the on-screen displays except for the menus, a message when turning off the power, and warning messages.
For details on the warning messages, see page 39 (GB).

INPUT-A

Selects the RGB or component signal input from the INPUT A connector.

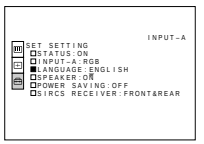


Note

If the setting is not correct, "Please check INPUT-A in SET SETTING." appears on the screen and the color of the picture becomes strange or the picture is not displayed.

LANGUAGE

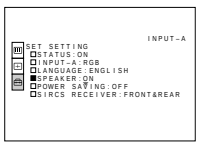
Selects the language used in the menu and on-screen displays.



Available languages are: English, French, German, Italian, Spanish, Japanese and Chinese.

SPEAKER

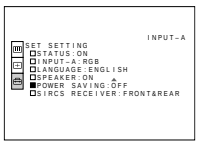
Set to OFF to cut off the sound of the internal speakers. When set to OFF, "SPEAKER OFF" appears on the screen when you turn on the power.



The SET SETTING Menu

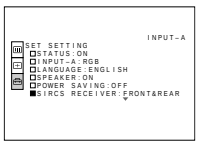
POWER SAVING

When set to ON, the projector goes into the power saving mode if no signal is input for 10 minutes.



SIRCS RECEIVER

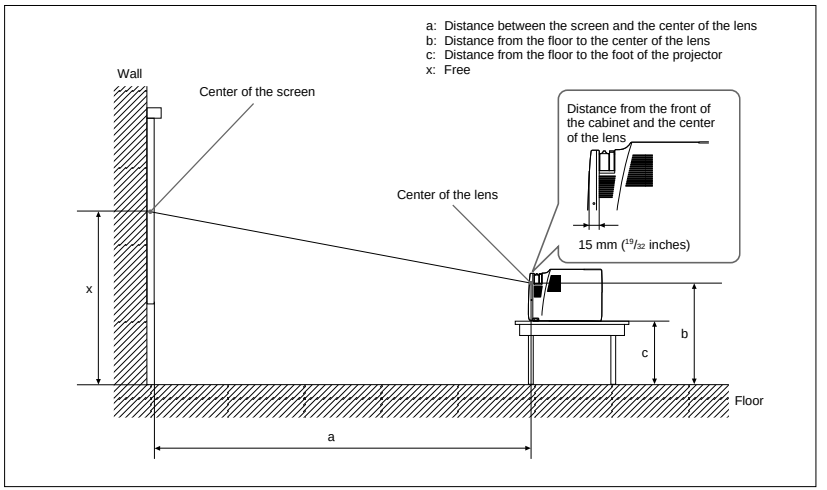
Selects the remote control detectors on the front and rear of the projector.



FRONT & REAR: Activates both the front and rear detectors.
FRONT: Activates the front detector only.
REAR: Activates the rear detector only.

Installation Example

You can not install the projector upside down, such as on a ceiling.


a: Distance between the screen and the center of the lens
b: Distance from the floor to the center of the lens
c: Distance from the floor to the foot of the projector
x: Free
Wall
Center of the screen
Distance from the front of the cabinet and the center of the lens
Center of the lens
15 mm (19/32 inches)
x
b
c
Floor
a

Unit: mm (inches)

Screen size (inches)		40	60	80	100	120	150
a	Minimum	1540 (60 3/4)	2350 (92 5/8)	3160 (124 1/2)	3970 (156 3/8)	4780 (188 1/4)	6000 (236 1/4)
	Maximum	1830 (72 1/8)	2770 (109 1/8)	3720 (146 1/2)	4660 (183 1/2)	5600 (220 1/2)	7010 (276 1/32)
b		x–265 (x–10 1/2)	x–397 (x–15 5/8)	x–529 (x–20 7/8)	x–661 (x–26 1/8)	x–794 (x–31 1/4)	x–992 (x–39 1/8)
c		x–423 (x–16 3/4)	x–555 (x–21 7/8)	x–687 (x–27 1/8)	x–820 (x–32 3/8)	x–952 (x–37 1/2)	x–1150 (x–45 3/8)

To calculate the installation measurement (unit: mm)

SS: screen size diagonal (inches)
a (minimum) = {(SS × 35.82/0.9071) – 72.99} × 1.025
a (maximum) = {(SS × 43.834/0.9071) – 54.66} × 0.975
b = x – (SS/0.9071 × 6)
c = x – (SS/0.9071 × 6 + 158.3)

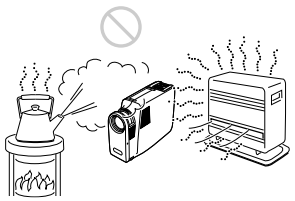
Unsuitable Installation

Do not install the projector in the following situations. These installations may cause malfunction or damage to the projector.

Poorly ventilated

- Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes. When the internal heat builds up due to the block-up, the temperature sensor will function with the message “High Temperature! Power off in 1 min.” The power will be turned off automatically after one minute.
- Leave space of more than 30 cm (11 7/8 inches) around the unit.
- Be careful that the ventilation holes may inhale tininess such as a piece of paper.

Highly heated and humid



- Avoid installing the unit in a location where the temperature or humidity is very high, or temperature is very low.
- To avoid moisture condensation, do not install the unit in a location where the temperature may rise rapidly.

Very dusty

Avoid installing the unit in a location where there is a lot of dust; otherwise, the air filter will be obstructed. The dust blocking the air through the filter may cause raising the internal heat of the projector. Clean it up periodically.

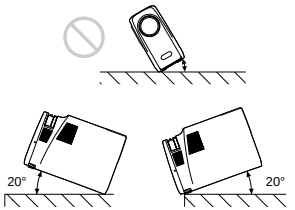
Notes on Installation

Carry out the followings.

No toppling of the unit

Avoid using as the unit topples over on its side. It may cause malfunction.

Use to be level



Do not install the unit other than on the floor.
Avoid using as the unit tilts to one side or tilts upward or downward more than 20 degrees. These installation may cause malfunction.

No blocking the ventilation holes

Avoid using something to cover over the ventilation holes; otherwise, the internal heat may build up.

Maintenance

Replacing the Lamp

When it is time to replace the lamp, replace the lamp promptly with a new LMP-600 Projector Lamp.

When replacing the lamp after using the projector

Turn off the projector, then unplug the power cord. Wait for at least an hour for the lamp to cool.

Note

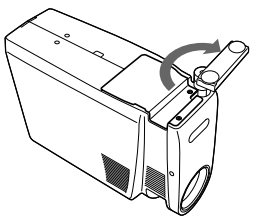
The lamp will still be very hot after turning off the power. Wait until the lamp has cooled completely before replacing.

1 Place a protective sheet (cloth) beneath the projector. Turn the projector over so it is upside down.

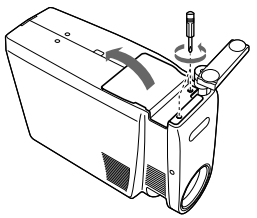
Note

Be careful not to topple over the projector after turning it over.

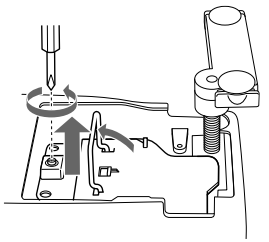
2 Pull out the adjuster by pressing the adjuster button and turn it outward.



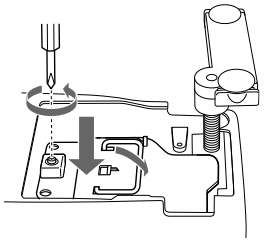
3 Open the lamp cover by loosening two screws with the Philips screwdriver (supplied with the LMP-600 Projector Lamp).
For safety sake, do not loosen the other screws.



4 Loosen the screw on the lamp unit with the Philips screwdriver. Pull out the lamp unit by the handle.



5 Insert the new lamp all the way in until it is securely in place. Tighten the screw. Fold down the handle.



Notes

- Be careful not to touch the glass surface of the lamp.
- The power will not turn on if the lamp is not secured properly.

6 Close the lamp cover and tighten the screws.

7 Turn the adjuster inward and push it back.

8 Turn the projector back over.

9 Connect the power cord and turn the projector to the standby mode.

10 Press the following keys on the control panel in the following order for less than in five seconds each: LIGHT, ←, →, ENTER.

Notes

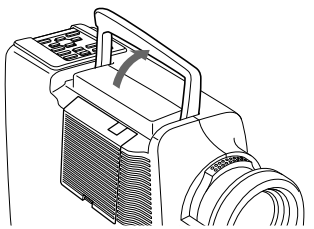
- The lamp becomes a high temperature after turnig off the projector with the I /⏻ key. If you touch the lamp, you may scald your finger. When you replace the lamp, wait for at least an hour for the lamp to cool.
- Be sure to use the LMP-600 Projector Lamp for replacement. If you use lamps other than LMP-600, the projector may cause a malfunction.
- Be sure to turn off the projector and unplug the power cord before replacing the lamp.
- Do not place the old lamp near children or near the objects which catch fire easily.
- Do not get wet the lamp or fall any liquid or object inside the lamp. The lamp may broken.
- Do not put your hands into the lamp replacement spot, or not fall any liquid or object into it to avoid electrical shock or fire.

Cleaning the Air Filter

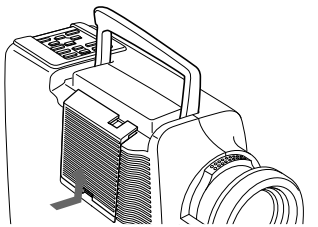
The air filter should be cleaned every 300 hours. When it becomes difficult to remove the dust from the filter, replace the filter with a new one.
To clean the air filter, follow the steps below:

1 Turn off the power and unplug the power cord.

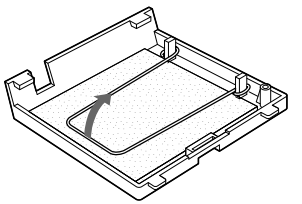
2 Pull up the carrying handle.



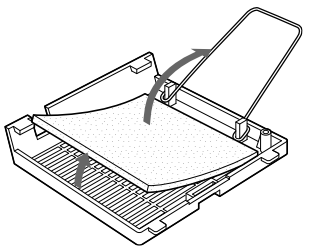
3 Press and hold the PUSH button and remove the air filter cover on the right side of the projector.



4 Pull up the spring.



5 Remove the air filter.



6 Remove the dust from the filter with a vacuum cleaner.

7 Attach the air filter and replace the cover.

Troubleshooting

If the projector appears to be operating erratically, try to diagnose and correct the problem, using the following guide. If the problem still persists, consult with qualified Sony personnel.

Symptom	Cause	Remedy
The power is not turned on.	The power has been turned off and on with the I / ⏻ key at a short interval.	Wait for about 90 seconds before turning on the power *(see page 22 (GB))*.
	The lamp cover is detached.	Close the lamp cover securely *(see page 36 (GB))*.
	The air filter cover is detached.	Close the air filter cover securely *(see page 37 (GB))*.
No picture and no sound.	Cable is disconnected.	Check that the proper connections have been made *(see pages 18 (GB) to 21 (GB))*.
	Wrong connection.	Check that the proper connections have been made *(see pages 18 (GB) to 21 (GB))*.
	Input selection is incorrect.	Select the input source correctly using the INPUT key *(see page 22 (GB))*.
No picture or no sound.	Either the picture or the sound is cut off.	Press the MUTING keys to release the muting function *(see page 23 (GB))*.
No picture.	The computer signal is not set to output to external monitor.	Set the computer signal to output to external monitor *(see page 18 (GB))*.
	The computer signal is set to output to both the LCD of the computer and external monitor.	Set the computer signal to output only to external monitor *(see page 18 (GB))*.
The picture is noisy.	Noise may appear on the background depending on the combination of the numbers of dot input from the connector and numbers of pixel on the LCD panel.	Change the desktop pattern on the connected computer.
When inputting sound through INPUT A connector, sound comes through one channel only.	Monaural sound is being input through the INPUT A connector.	Input stereo sound.
The picture input from the INPUT A connector is too bright.	The 75-ohm termination switch on the bottom of the VPL-XC50U/E/M is set to OFF.	Set the 75-ohm termination switch to ON.
The picture from INPUT A connector is colored strange.	Setting for INPUT-A in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A in the SET SETTING menu according to the input signal *(see page 31 (GB))*.
"Please check INPUT-A in SET SETTING." appears in spite of inputting the correct signal from INPUT A.	Setting for INPUT-A in the SET SETTING menu is incorrect.	Select RGB or COMPONENT for INPUT-A in the SET SETTING menu according to the input signal *(see page 31 (GB))*.
On-screen display do not appear.	STATUS in the SET SETTING menu has been set to OFF.	Set STATUS in the SET SETTING menu to ON *(see page 31 (GB))*.
Color balance is incorrect.	Picture has not been adjusted properly.	Adjust the picture *(see pages 26 (GB) and 27 (GB))*.
	Projector is set to wrong color system.	Set COLOR SYS in the PICTURE CTRL menu to match the color system being input *(see page 27 (GB))*.
The picture is too dark.	Contrast or brightness has not been adjusted properly.	Adjust the contrast or brightness in the PICTURE CTRL menu properly *(see page 26 (GB))*.
The picture is not clear.	Picture is out of focus.	Adjust the focus *(see page 23 (GB))*.
	Condensation has occurred on the lens.	Leave the projector for about two hours with the power on *(see page 34 (GB))*.

Symptom	Cause	Remedy
The LAMP/COVER indicator flashes.	The lamp cover or the air filter cover is detached.	Attach the cover securely *(see pages 36 (GB) and 37 (GB))*.
The LAMP/COVER indicator lights up.	The lamp has reached the end of its life.	Replace the lamp *(see page 36 (GB))*.
	The lamp becomes a high temperature.	Wait for 90 seconds to cool down the lamp and turn on the power again *(see page 22 (GB))*.
The TEMP/FAN indicator flashes.	The fan is broken.	Consult with qualified Sony personnel.
The TEMP/FAN indicator lights up.	The internal temperature is unusually high.	Check to see if nothing is blocking the ventilation holes.
The Remote Commander does not work.	The Remote Commander batteries are dead.	Replace with new batteries *(see page 16 (GB))*.
	The COMMANDER ON/OFF switch is set to the OFF position.	Set the switch to ON position *(see page 16 (GB))*.
	The cable is connected to the CONTROL S OUT jack.	Disconnect the cable *(see page 16 (GB))*.
	The front/rear remote control detector is near the fluorescent lamp.	Change the setting of SIRCS RECEIVER in the SET SETTING menu *(see page 32 (GB))*.
The laser pointer is not emitted.	The batteries are dead.	Replace with new batteries *(see page 16 (GB))*.
	The Remote Commander is used as wired without batteries.	Install batteries *(see page 16 (GB))*.
The joystick, R CLICK, or L CLICK key does not function.	The mouse port on the computer does not recognize the mouse cable.	Restart the computer.

Warning messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
High Temperature! Power off in 1 min.	Internal temperature is too high.	Turn off the power. Check to see if nothing is blocking the ventilation holes.
Frequency is out of range!	This input signal cannot be projected as the frequency is out of the acceptable range of the projector.	Input a signal that is within the range of the frequency.
	The resolution setting of the output signal of a computer is too high.	Set the setting of output to the SVGA *(see page 18 (GB))*.
Please check INPUT-A in SET SETTING.	You have input RGB signal from the computer when INPUT-A in the SET SETTING menu is set to COMPONENT.	Set INPUT-A correctly.

Caution messages

Use the list below to check the meaning of the messages displayed on the screen.

Message	Meaning	Remedy
NO INPUT	No input signal	Check connections.
Not applicable!	You have pressed the wrong key.	Press the appropriate key.

http://getMANUAL.com

Specifications

Optical characteristics

Projection system: 3 LCD panels, 1 lens, projection system
LCD panel: 0.9-inch TFT LCD panel with micro-lens array, 2,359,296 pixels (786,432 pixels × 3)
Lens: 1.2 times zoom lens f 36.0 to 43.5 mm/F 2.0 to 2.3
Lamp: 120 W UHP
Projection picture size
Range: 40 to 150 inches (diagonal measure)
Light output: ANSI lumen[1] 600 lm
Throwing distance (When the SVGA signal is input)
40-inch: 1540 to 1830 mm (60 3/4 to 72 1/8 inches)
60-inch: 2350 to 2770 mm (92 5/8 to 109 1/8 inches)
80-inch: 3160 to 3720 mm (124 1/2 to 146 1/2 inches)
100-inch: 3970 to 4660 mm (156 3/8 to 183 1/2 inches)
120-inch: 4780 to 5600 mm (188 1/4 to 220 1/2 inches)
150-inch: 6000 to 7010 mm (236 1/4 to 276 1/32 inches)

Electrical characteristics

Color system: NTSC3.58/PAL/SECAM/NTSC4.43/PAL-M system, switched automatically/manually
Resolution: 750 horizontal TV lines (Video input)
1024 × 768 dots (RGB input)
Acceptable computer signals
fH: 15, 24 to 91 kHz
fV: 43 to 85 Hz
Speaker: Stereo speakers system, 36 mm (1 7/16 inches) diameter, max. 0.5 W × 2

Input/Output

Video/audio input: VIDEO: phono type
Composite video: 1 Vp-p ±2 dB sync negative (75 ohms terminated)
S VIDEO: Y/C mini DIN 4-pin type (male)
Y (luminance): 1 Vp-p ±2 dB sync negative (75 ohms terminated)
C (chrominance): burst 0.286 Vp-p ±2 dB (NTSC) (75 ohms terminated), burst 0.3 Vp-p ±2 dB (PAL) (75 ohms terminated)
AUDIO: Phono type × 2
500 mVrms, impedance more than 47 kilohms
INPUT A: INPUT A: HD D-sub15-pin (female)
Analog RGB/component:
R/R-Y: 0.7 Vp-p ±2 dB (75 ohms terminated)
G: 0.7 Vp-p ±2 dB (75 ohms terminated)
G with sync/Y: 1 Vp-p ±2 dB sync negative (75 ohms terminated)
B/B-Y: 0.7 Vp-p ±2 dB (75 ohms terminated)
SYNC/HD:
Composite sync input: 1-5 Vp-p high impedance, positive/negative
Horizontal sync input: 1-5 Vp-p high impedance, positive/negative
VD:
Vertical sync input: 1-5 Vp-p high impedance, positive/negative
MOUSE (output): 13-pin (female)
(For details, see "Pin assignment" on page 42 (GB).)
AUDIO: Stereo minijack
500 mVrms, impedance more than 47 kilohms
AUDIO OUT (variable out): stereo minijack
Max. 500 mVrms, impedance less than 5 kilohms
Safety regulations: VPL-XC50U: UL1950, cUL (CSA C22.2 No.950), FCC Class A, IC Class A, DHHS
VPL-XC50E/XC50M: EN60950 EN60825-1, CE, C-Tick

Laser beam

Laser type: Class 2
Wavelength: 645 nm
Output: 1 mW

General

Dimensions: 107 × 218 × 314 mm (4 1/4 × 8 5/8 × 12 3/8 inches) (w/h/d)
Mass: Approx. 3.7 kg (8 lb 3 oz)
Power requirements
AC 100 to 120 V/ 220 to 240 V, 2A/0.9A, 50/60 Hz
Power consumption
Max. 190 W (Standby mode: 5 W)
Heat dissipation: 648.37 BTU
Operating temperature
0°C to 40°C (32°F to 104°F)
Operating humidity
35% to 85% (no condensation)
Storage temperature
–20°C to 60°C (–4°F to 140°F)
Storage humidity: 10% to 90%
Supplied accessories
Remote Commander RM-PJM600 (1)
Size AA (R6) batteries (2)
Video Signal Cable SMF-401 (1)
Signal Adapter (for Macintosh) (1)
Mouse Cable
SIC-S20 (for Macintosh) (2 m) (1)
SIC-S22 (for PS/2) (2 m) (1)
Audio/video cable (1.5 m) (1)
Strap for Remote Commander (1)
AC power cord (1)
Air filter (for replacement) (1)
Operating Instructions (1)
Quick Reference Card (1)
Warranty Card (1) (only for VPL-XC50U)

Design and specifications are subject to change without notice.

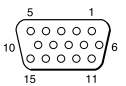
Optional accessories

Projector Lamp LMP-600[1] (for replacement)
Carrying Case VLC-SC50[1]
Signal Selector IFU-SC50
Video Signal Cable SMF-401 (HD D-sub 15-pin (male) ⟷ HD D-sub 15-pin (male))
Signal Cable
SMF-402 (HD D-sub 15-pin (male) ⟷ 3 × phono type (male))
Mouse Cable
SIC-S20 (for Macintosh) (2 m)
SIC-S21 (for Serial) (2 m)
SIC-S22 (for PS/2) (2 m)
Signal Adapter
ADP-10 (HD D-sub 15-pin ⟷ D-sub 9-pin (for SIC cable))
ADP-20 (Macintosh ⟷ HD D-sub 15-pin)
SIC cable
SIC-20A/20C/21/22
Screens
80-inch Portable VPS-80C
100-inch Flat Screen VPS-100FH
120-inch Flat Screen VPS-120FH

Some of the items may not be available in some areas. For details, please consult your nearest Sony office.

Pin assignment

INPUT A connector (HD D-sub 15-pin, female)



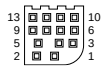
1	R/R-Y	9	N.C.
2	G/Y	10	GND
3	B/B-Y	11	GND
4	GND	12	N.C.
5	GND	13	HD/C.Sync
6	GND (R)	14	VD
7	GND (G)	15	N.C.
8	GND (B)		

1) ANSI lumen is a measuring method of American National Standard IT 7.228.

1) LMP-600 and VLC-SC50 may not be available in some areas. For details, please consult your nearest Sony office.

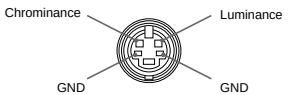
Specifications

MOUSE connector (13-pin, female)



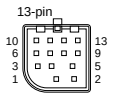
1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

S VIDEO jack (4 pin, mini-DIN)



Mouse cable pin assignment

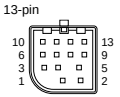
SIC-S20

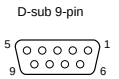


1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

1	ADB
2	NC
3	+5V
4	GND

SIC-S21 (not supplied)

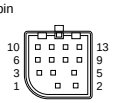




1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

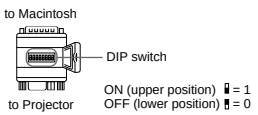
SIC-S22



1	RTS	8	R
2	GND	9	98/AT/TXD
3	XA	10	+5V/DTR
4	XB	11	CLOCK
5	YA	12	DATA
6	YB	13	RXD
7	L/PS		

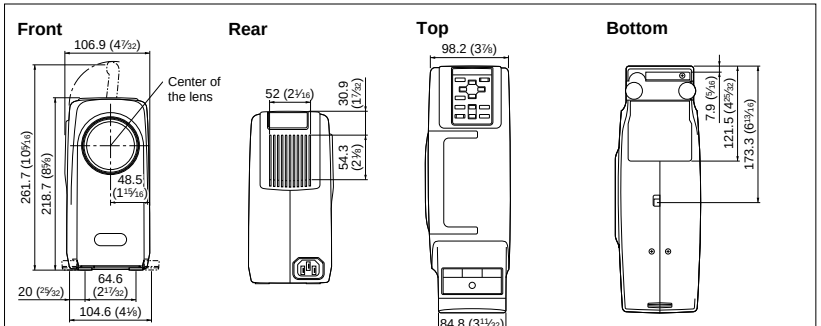
1	DATA
2	NC
3	GND
4	+5V
5	CLOCK
6	NC

Switch position for signal adapter

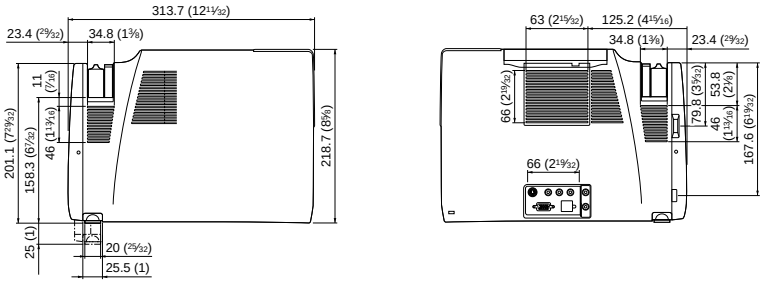


Mode	fH	DIP switch 12345678
VGA/S VGA	31.5 kHz/37.8 kHz	00111001
Macintosh 13”	35.0 kHz	11001001
Macintosh 16”	49.7 kHz	01011001

Dimensions



Side



Unit: mm (inches)

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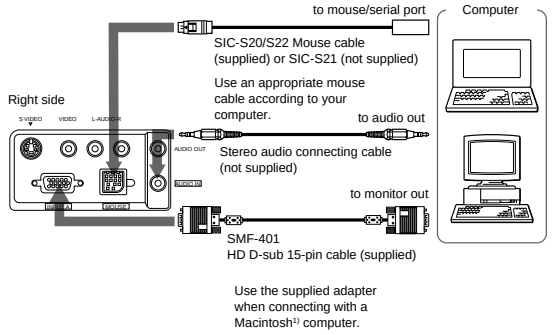
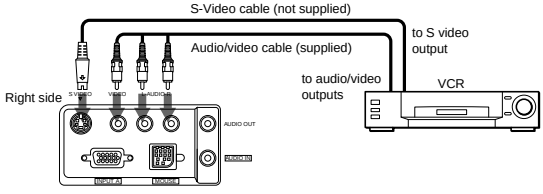
■ Connections ■

Connecting with a computer



Connecting with a VCR



1) Macintosh is a registered trademark of Apple Computer, Inc.

SONY **VPL-XC50U/E/M**

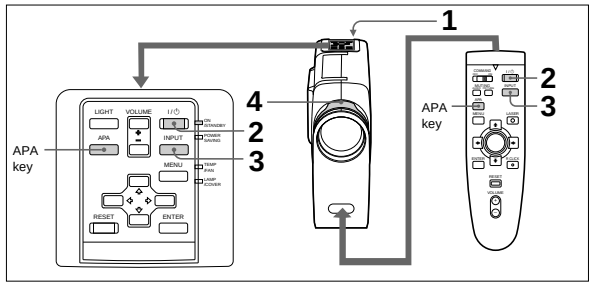
Quick Reference Card

■ Projection Distances ■

The distance between the lens and the screen varies depending on the size of the screen. Use the following table as a guide.

Screen size (inches)		40	60	80	100	120	150
Distance (m (feet))	Minimum	1.5 (5.1)	2.4 (7.7)	3.2 (10.4)	4.0 (13.0)	4.8 (15.7)	6.0 (19.7)
	Maximum	1.8 (6.0)	2.8 (9.1)	3.7 (12.2)	4.7 (15.3)	5.6 (18.4)	7.0 (23.0)

■ Basic Operation ■



1 After all equipment is connected completely, plug the AC power cord into the wall outlet.

2 Press the I / ⏻ key to turn on the projector.

3 Turn on equipment connected to the projector. Press the INPUT key to select the input source.

4 Turn the focus ring to adjust the focus, and turn the zoom ring to adjust the size of the picture.

To get the clearest picture

You can get the suitable picture when a signal from the computer is input. Press the APA (Auto Pixel Alignment) key to adjust the picture to be projected clearest.

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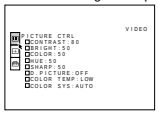
4-068-675-**11** (1)

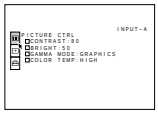
■ Menu Functions ■

● **PICTURE CTRL menu:** Adjusts picture settings.

When a video signal is input



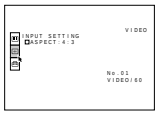
When an RGB signal is input



CONTRAST:	Adjusts picture contrast.
BRIGHT:	Adjusts picture brightness.
COLOR:	Adjusts color intensity.
HUE:	Adjusts skin tones.
SHARP:	Adjusts picture sharpness.
D. PICTURE:	Emphasizes the black color.
GAMMA MODE:	Selects a gamma correction curve.
COLOR TEMP:	Adjusts the color temperature.
COLOR SYS:	Selects color system of the input signal.

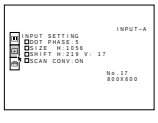
● **INPUT SETTING menu:** Adjusts the input signal settings.

When a video signal is input

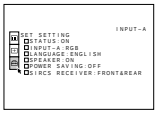


DOT PHASE:	Adjusts the dot phase of the LCD panel and the signal input from the INPUT A connectors.
SIZE:	Adjusts the horizontal size of pictures input from the INPUT A connectors.
SHIFT:	Adjusts the position of the picture input from the INPUT A connectors.
ASPECT:	Sets the aspect ratio of the picture.
SCAN CONV:	Converts the signal to display the picture according to the screen size or according to actual pixel resolution.

When an RGB signal is input



● **SET SETTING menu:** Changes the projector settings.



STATUS:	Selects the on-screen information to be displayed.
INPUT-A:	Selects the signal input from the INPUT A connector.
LANGUAGE:	Selects the language used in the menu and on-screen displays.
SPEAKER:	Cuts off the sound of internal speakers.
POWER SAVING:	Switches projector to power saving mode.
SIRCS RECEIVER:	Selects the remote control detectors on the front and rear of the projector.

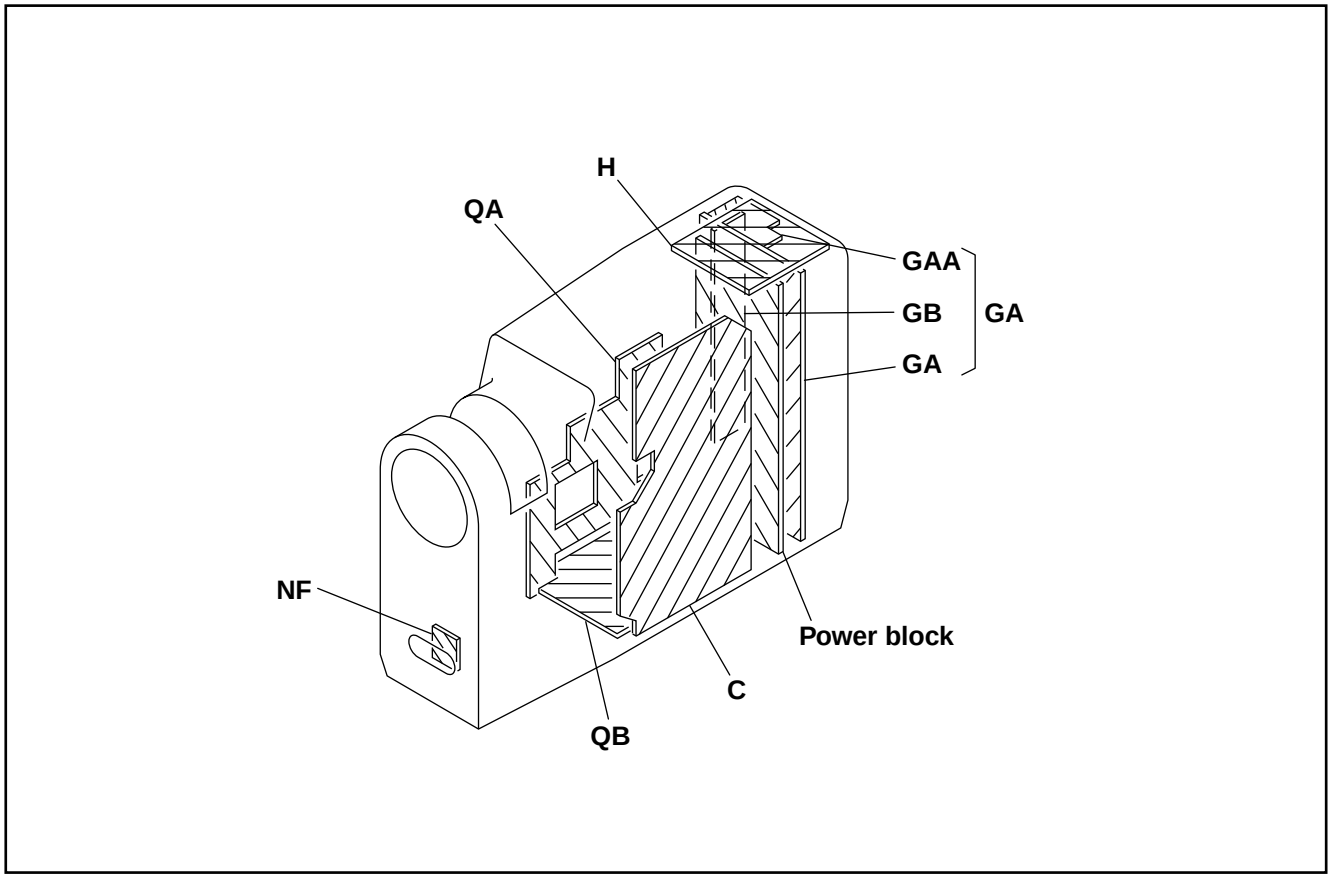
■ Basic Menu Operation ■

To display the menu, press the MENU key.

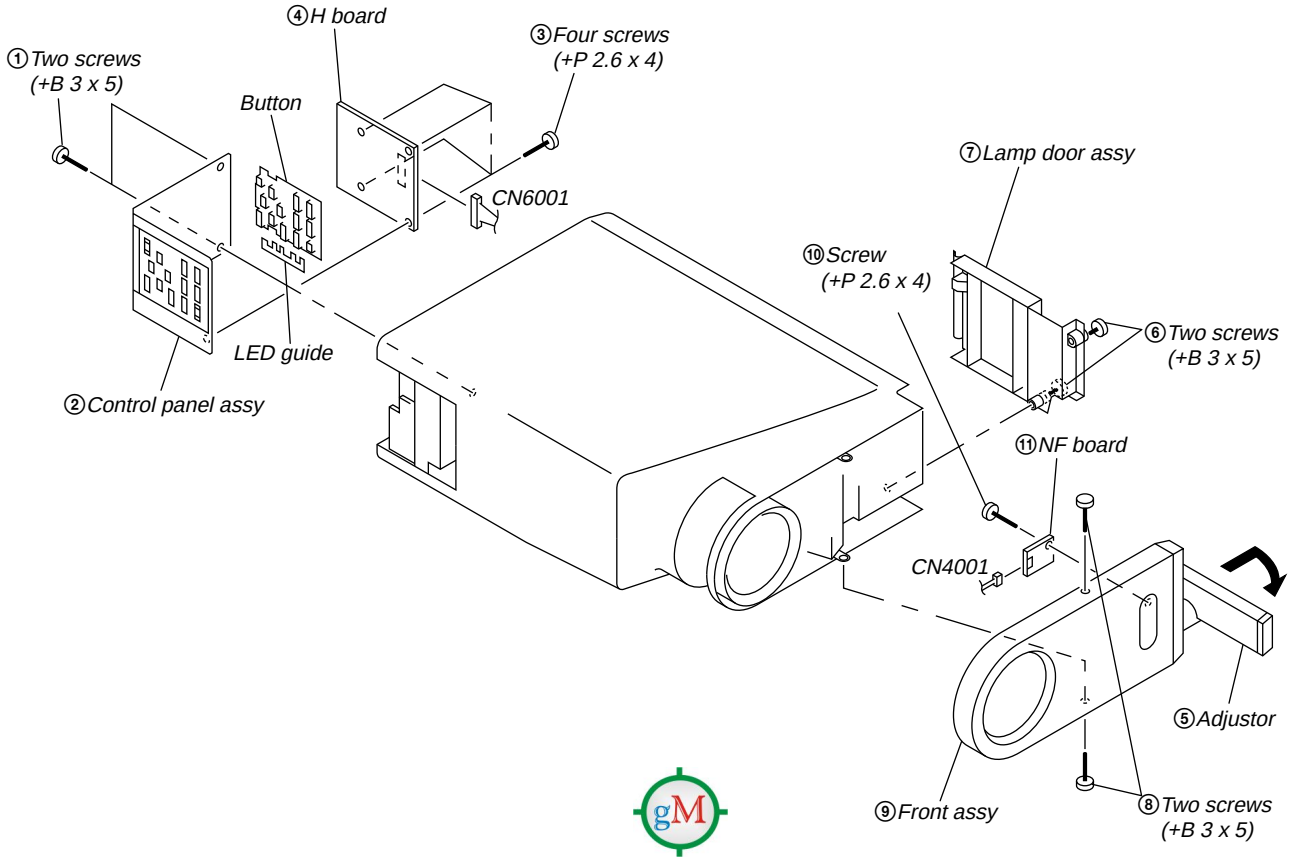
To	Control panel or Remote Commander key
Select a menu	Use the ↑/↓ keys to select a menu, then press the ENTER or → key.
Select an item	Use the ↑/↓ keys to select an item, then press the ENTER or → key.
Change an adjustment level	Use the ↑/→ keys to increase the number. Use the ↓/← keys to decrease the number. Then, press the ENTER key.
Change a setting	Use the ↑/↓ keys to select the setting. Then, press the ENTER or ← key.

SECTION 2
SERVICE INFORMATIONS

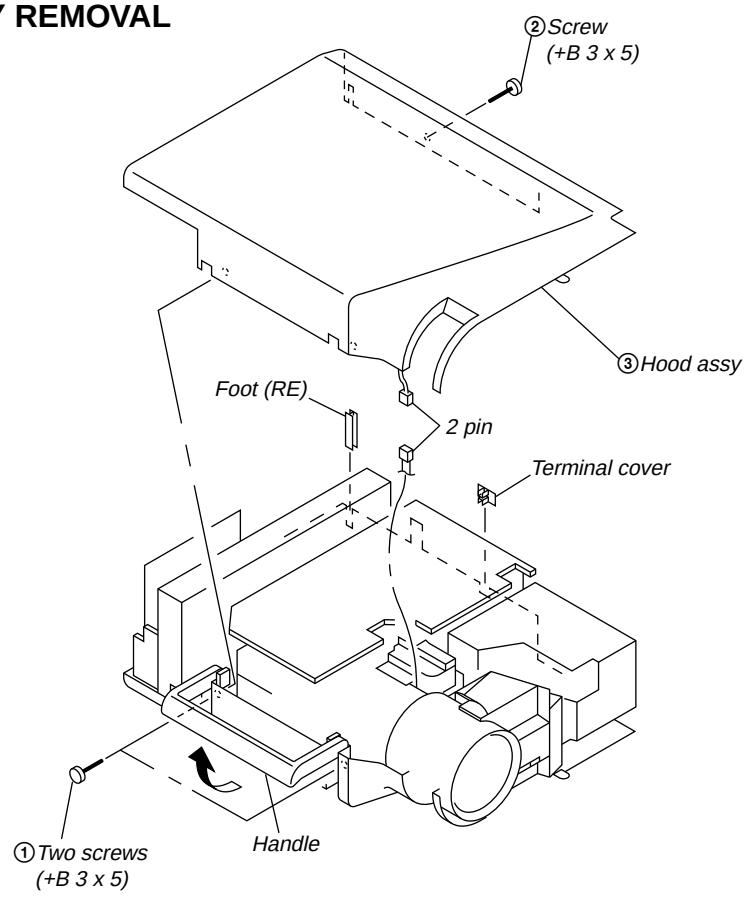
2-1. CIRCUIT BOARDS LOCATION



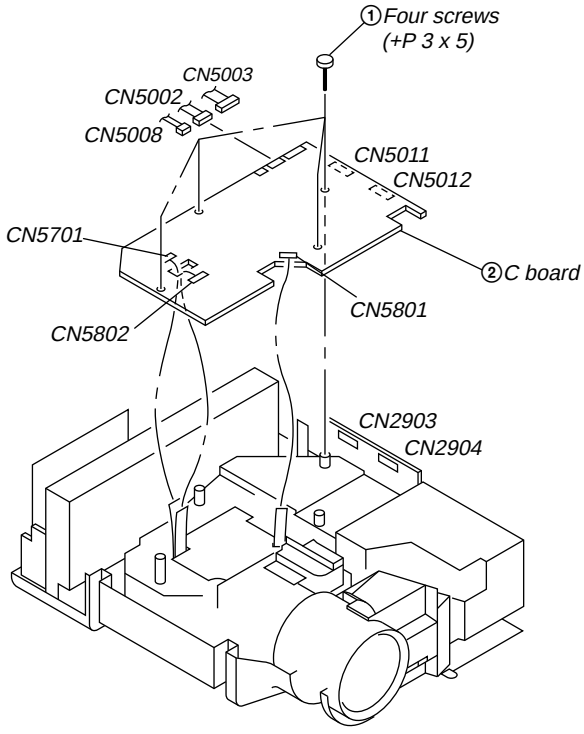
2-2. H AND NF BOARDS REMOVAL



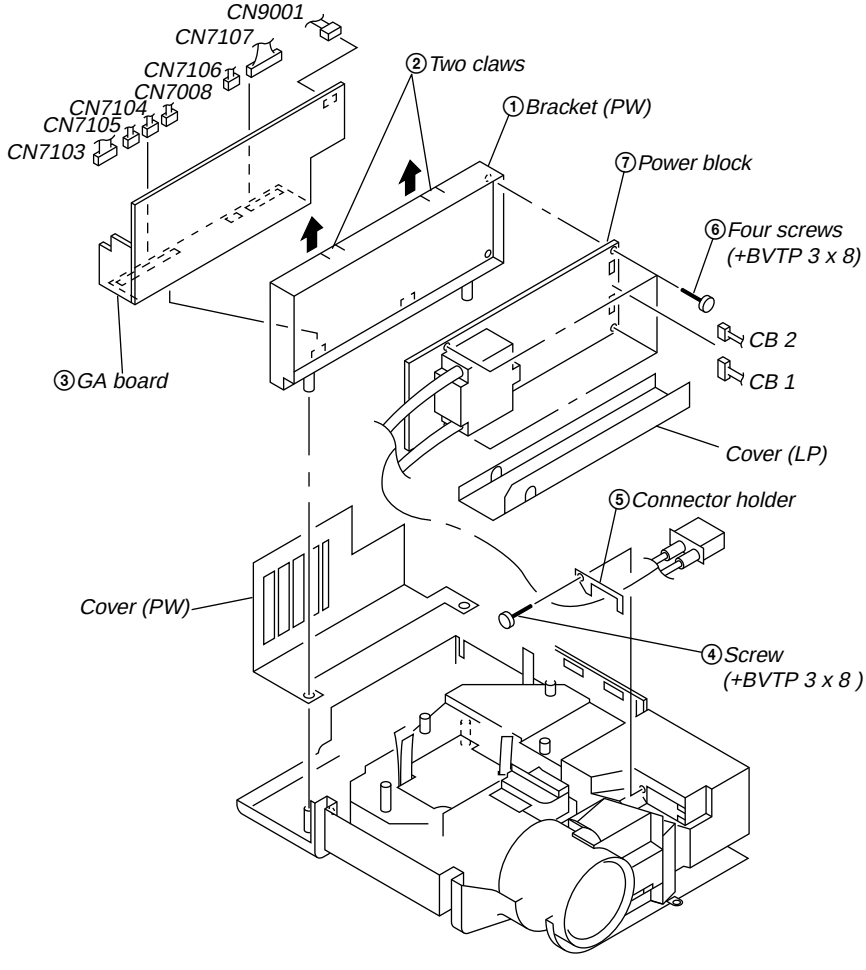
2-3. HOOD ASSY REMOVAL



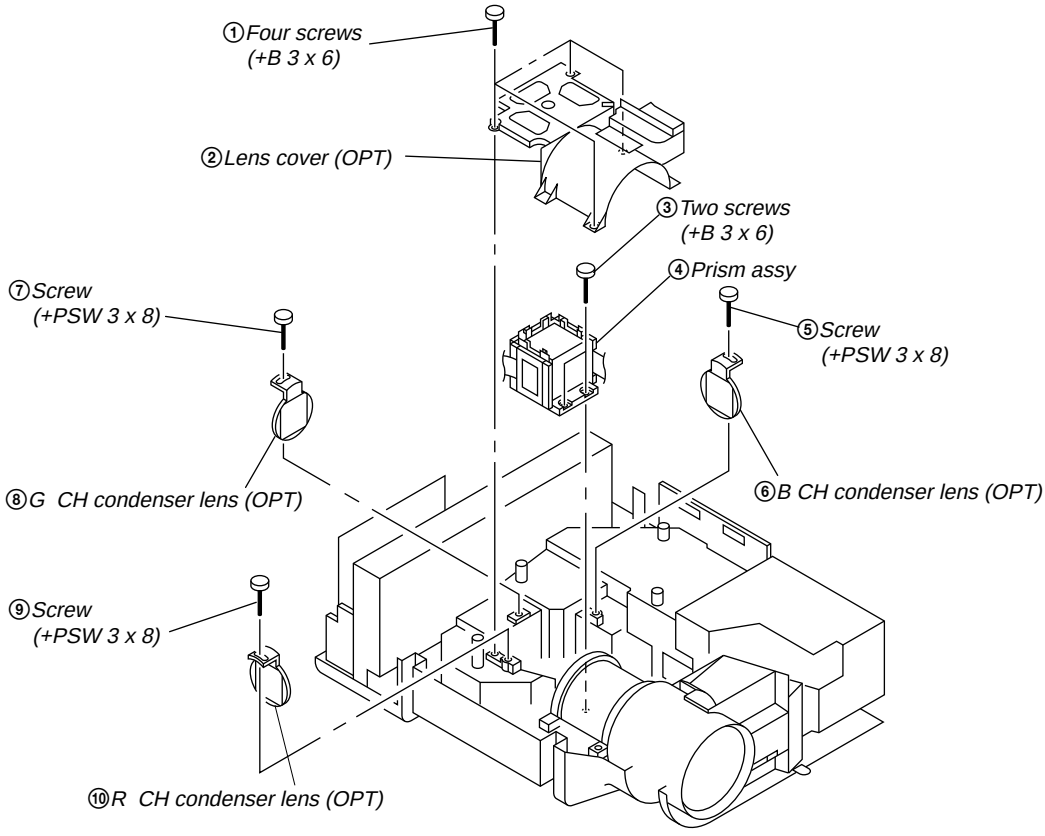
2-4. C BOARD REMOVAL



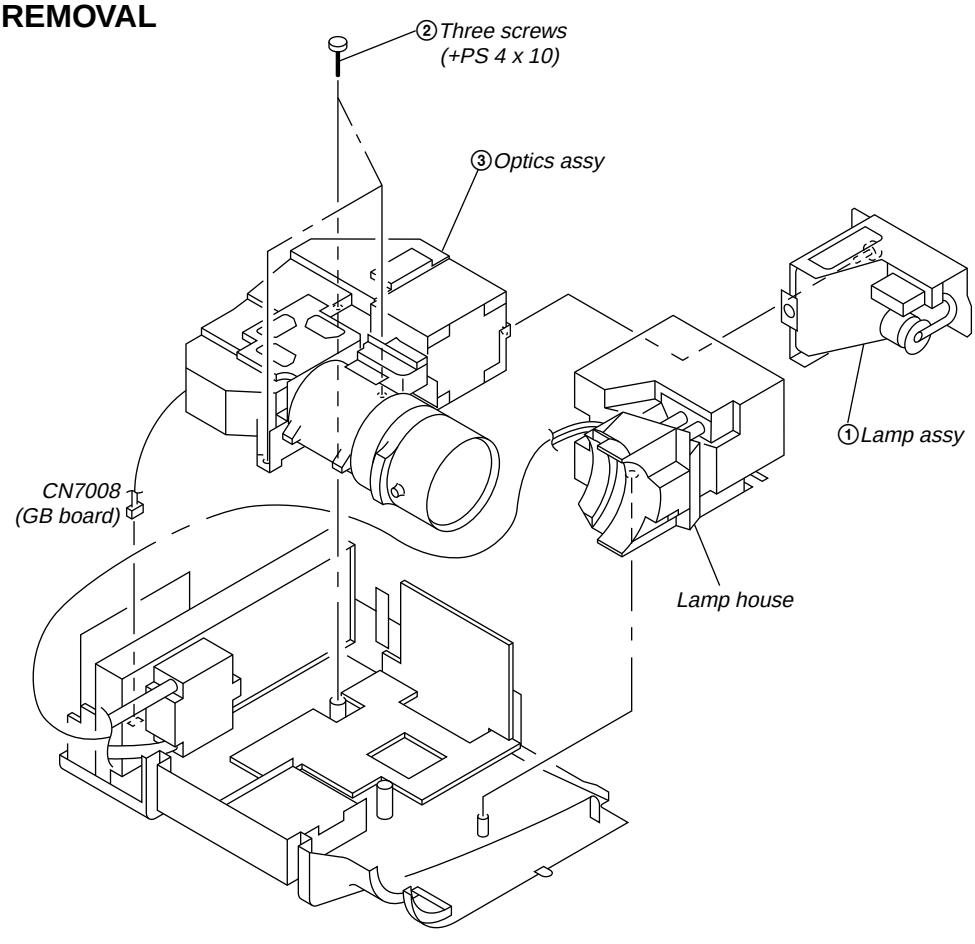
2-5. G BOARD AND POWER BLOCK REMOVAL



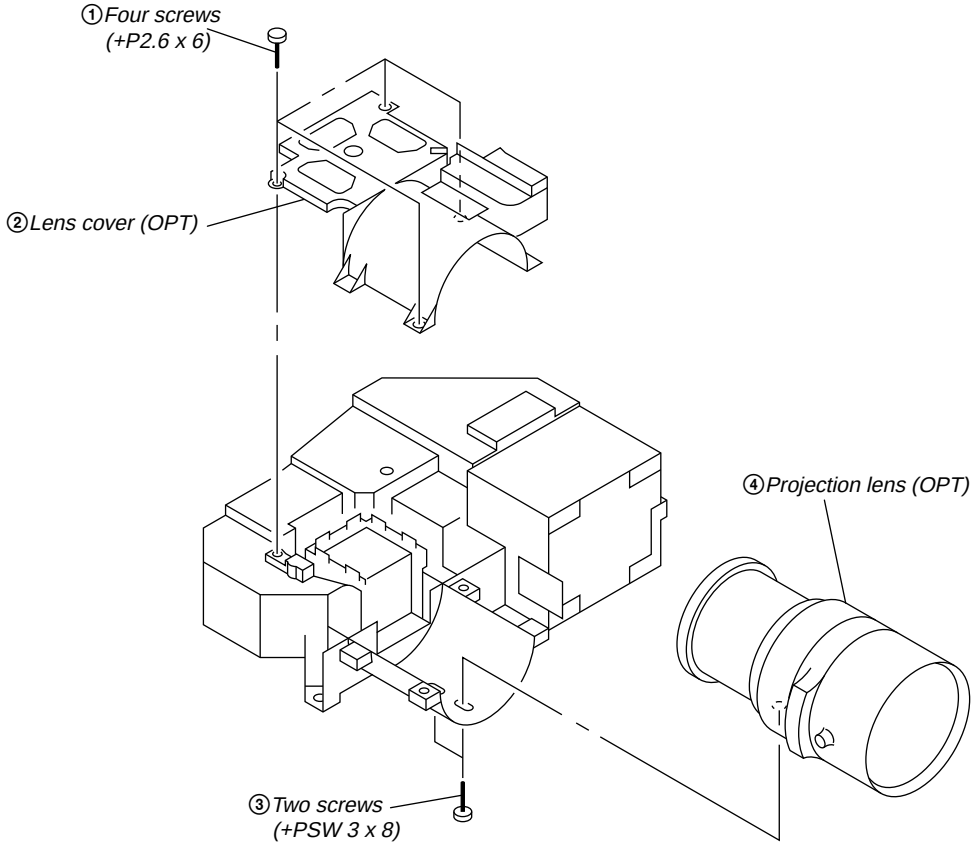
2-6. PRISM ASSY AND R/G/B CH CONDENSER LENS REMOVAL



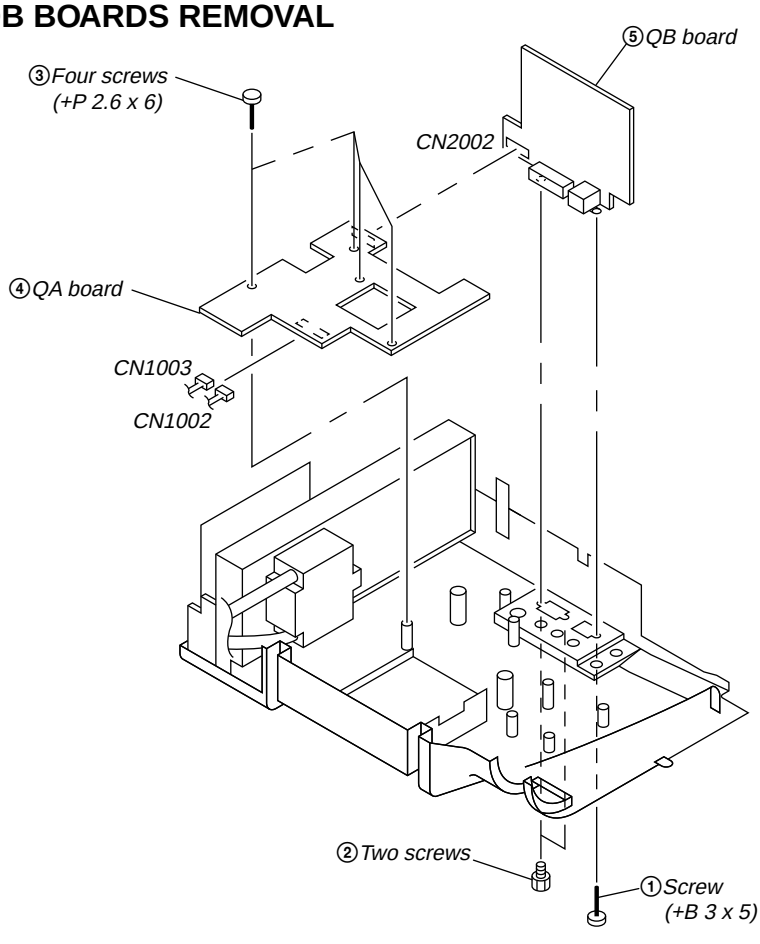
2-7. OPTICS ASSY REMOVAL



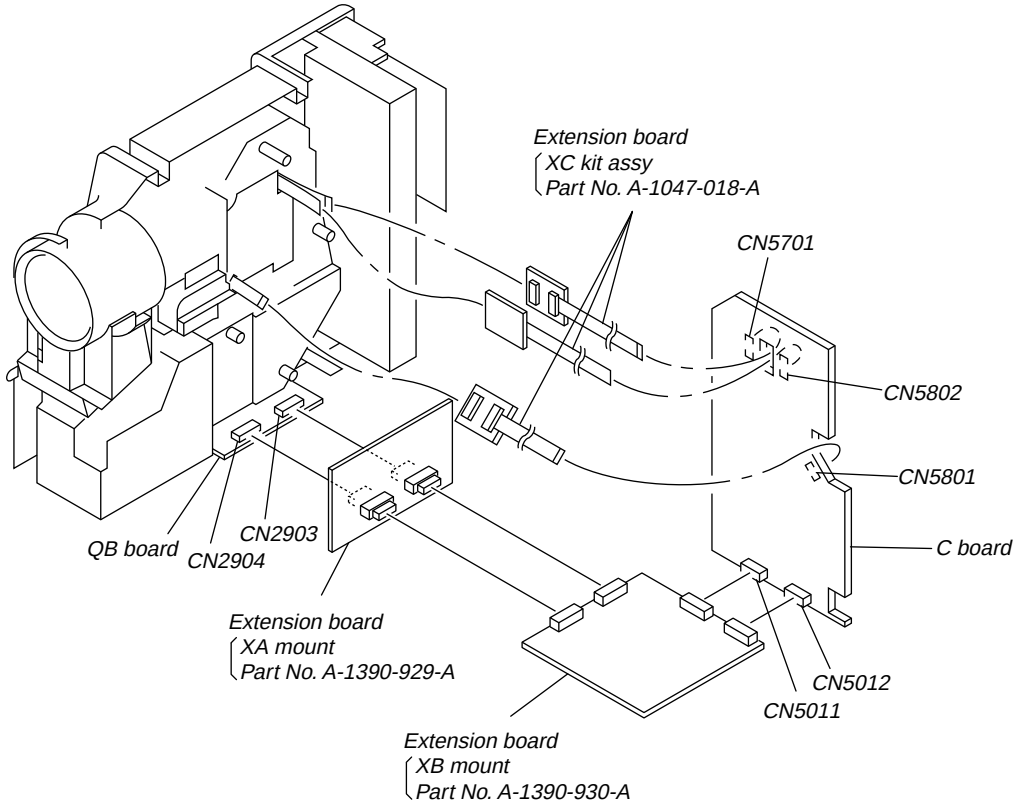
2-8. PROJECTION LENS REMOVAL



2-9. QA AND QB BOARDS REMOVAL



2-10. SERVICE POSITION
(EXTENSION CABLE CONNECTION)



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SECTION 3
SET-UP ADJUSTMENTS

3-1. PREPARATIONS

3-1-1. Setting the Factory Mode

1. Check that the STATUS is ON in MENU.
2. Exit MENU.
3. Press the keys in the following order;
   "ENTER" → "ENTER" → "LEFT" → "ENTER".
4. The message "Do you wish to enter into the FACTORY MODE?" will be displayed.
5. Select YES.

3-1-2. Equipment Used

1. Oscilloscope
2. Luminance meter
3. Color analyzer

3-2. VCOM ADJUSTMENT

1. Input the green-only 1H inverted signal to INPUT-A.
2. Set CONTRAST:50, BRIGHT:50.
3. Set the screen for adjusting P. DRV/RGB AMP/UF a P. DRV/G VCOM of "Device Adjust" .
   Adjust G VCOM so that flicker is minimum.
4. Input the red-only and blue-only 1H inverted signal, and adjust R VCOM and B VCOM respectively so that flicker becomes minimum.
5. Memorize the adjustment value.

3-3. SIGNAL LEVEL ADJUSTMENT

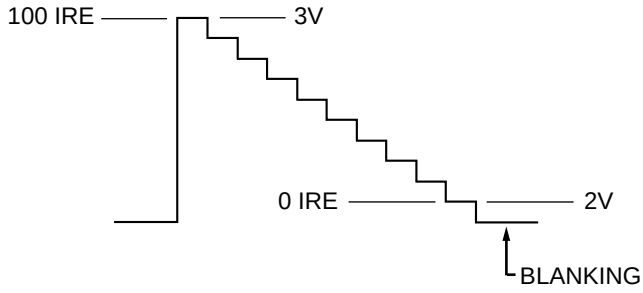
Set as follows;

GAMMA MODE:GRAPHICS, W/B:LOW mode
INPUT-A:XGA10 steps, VIDEO:100% COLOR BAR
CONTRAST:80, BRIGHT:50 (initial value).

3-3-1. RGB Level Adjustment

1. Adjust W/B LOW, R, G, B GAIN and W/B LOW R, G, B BIAS so that the levels of TP5607, TP5608 and TP5609 satisfy the specifications.
2. Memorize the adjustment values.

RGB LEVEL SPEC
Set TP5607, TP5608, and TP5609 as follows;
0IRE 2.00 ± 0.02 Vdc
100 IRE 3.00 ± 0.02 Vdc



3-3-2. VIDEO Level Adjustment

1. Switch the input to INPUT-A, input 15k Component 100% COLOR BAR, and set COLOR to MIN.
   For 15k Component, as using the following inputs;
   Y=0.7V ped to 100 IRE
   R-Y/B-Y=0.7 Vpp
2. Adjust W/B LOW, R, G, B GAIN and W/B LOW R, G, B BIAS so that the levels of TP5607, TP5608 and TP5609 satisfy the specifications.
3. Memorize the adjustment values.
4. Return COLOR to 50 (initial value).
5. Switch the input to VIDEO, input NTSC 100% COLOR BAR, and set COLOR to MIN. And then adjust and memorize the value.
6. Input the NTSC 100% COLOR BAR to VIDEO.
   Adjust RGB MTRX CONTRAST/BRIGHT so that the level of TP5609 satisfies the specification.
   Memorize the adjustment value.
7. Input the PAL 100% COLOR BAR to VIDEO.
   Adjust RGB MTRX CONTRAST/BRIGHT so that the level of TP5609 satisfies the specification.
   Memorize the adjustment value.
8. Return COLOR to 50 (initial value).

COMPONENT, VIDEO LEVEL SPEC
Set TP5607, TP5608, and TP5609 as follows;
0IRE 2.00 ± 0.02 Vdc
100 IRE 3.00 ± 0.02 Vdc

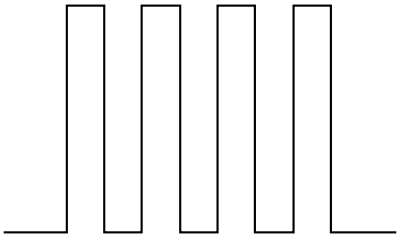
Note)
Adjust the 0 IRE of the signal.
Do not change RGB MTRX VIDEO CON, YUV CON.

3-3-3. VIDEO SUB HUE COLOR Adjustment

Set COLOR to 43 beforehand and perform offset adjustment. (Set both INPUT-A and VIDEO to COLOR 43.)

1. Adjust RGB MTRX SUB HUE to b=c so that the level of TP5609 Schematic Diagramssatisfies the specification.
   Adjust RGB MTRX VIDEO COL or YUV COL to a=d.
   Perform tracking adjustment for the two items above.
2. Memorize the adjustment value.
3. Adjust NTSC, PAL, and Component.
   Adjust only VIDEO COL for PAL.
   Adjust only YUV COL for Component.

VIDEO COLOR HUE Adjustment SPEC



TP5609 : a=b ± 10%

4. Return COLOR to 50.

3-4. γ W/B ADJUSTMENT

INPUT-A:XGA FLAT FIELD, 15k Component FLAT FIELD, (NTSC, PAL can be used instead of 15k Component).

(Note 1) Perform pre-aging of the unit for more than 5 minutes in the all white state.

(Note 2) Perform the above adjustment with the lens set to WIDE end.

(Note 3) Be sure to turn off the OSD when measuring the chromaticity.

The W/B MEMORY consists of two modes-HIGH and LOW for both the RGB and VIDEO inputs.

3-4-1. γ Adjustment

3-4-1-1. Graphics Mode Adjustment

1. Set γ MODE to Graphics to set HIGH MODE.
2. Input XGA FLAT FIELD 100 IRE to INPUT-A.
3. Copy the W/B LOW MODE data to W/B of HIGH MODE and memorize the data.
4. Set CONTRAST:MAX and BRIGHT:MAX.
   Measure the chromaticity (Xw, Yw).
5. Input the green-only XGA FLAT FIELD 100 IRE.
6. Measure the brightness Ygmax.
7. Set CONTRAST:80, BRIGHT:50 (initial value).
8. Input the XGA green-only FLAT FIELD 80 IRE to INPUT-A.
   Adjust GAMMA/G SBRT so that the brightness 80 satisfies the specification.
   Brightness adjustment specification (take the average of five measurements as the brightness)
   Y80=Ygmax x 0.680 ± 4%
9. Input the XGA green-only FLAT FIELD 40 IRE to INPUT-A.
   Adjust GAMMA/G GAIN so that the brightness Y40 satisfies the specification.
   Y40=Y80 x 0.218 ± 4%
10. Input the XGA green-only FLAT FIELD 20 IRE to INPUT-A.
    Adjust GAMMA/G B1P so that the brightness Y20 satisfies the specification.
    Y20=Y80 x 0.0474 ± 4%
11. Input the XGA FLAT FIELD 80 IRE to INPUT-A.
    Adjust GAMMA/R SBRT, B SBRT so that the chromaticity at this time (white) satisfies the specification.
    Specification;
    80 IRE (Xw ± 0.005, Yw ± 0.005)

12. Input the XGA FLAT FIELD 40 IRE to INPUT-A. Adjust GAMMA/R GAIN, B GAIN so that the chromaticity at this time (white) satisfies the specification. Specification; 40 IRE (Xw ± 0.005, Yw ± 0.005)
13. Perform tracking adjustment so that both 80 IRE and 40 IRE satisfy the specification.
14. Input the XGA FLAT FIELD 20 IRE to INPUT-A. Adjust GAMMA/R B1P, B B1P so that the chromaticity at this time (white) satisfies the specification. Specification; 20 IRE (Xw ± 0.005, Yw ± 0.005)
15. Memorize the adjustment value.

3-4-1-2. Text Mode Adjustment

1. Set γ MODE to Text.
2. Perform the following processes on the value adjusted in the Graphics Mode (3-4-1-1) and copy the value.

   GAMMA/GAIN:
   Adjustment value in Graphics Mode +10 (Red)
   Adjustment value in Graphics Mode +10 (Green)
   Adjustment value in Graphics Mode +10 (Blue)
   GAMMA/B1P:
   Adjustment value in Graphics Mode (Both R/G/B)
   GAMMA/B2P:
   Adjustment value in Graphics Mode (Both R/G/B)

   Switch γ MODE to Graphics.
   Input the XGA Flat Field 50 IRE and measure the chromaticity (xg, yg) at this time.

   Swichi γ MODE to Text and adjust yg 50 ± 4% GAMMA/G GAIN to meet the specifications.

   Input the XGA Flat Field 50 IRE and adjust GAMMA/R GAIN, B GAIN (xg ± 0.005, yg ± 0.005) .

3. Memorize the adjustment value.

3-4-2. RGB W/B Low Mode Adjustment

1. Input the XGA signal to the INPUT-A.
2. Set γ MODE to Graphics.
3. The LOW MODE is set.
4. Perform the following processes on 3-3-1 adjustment value.

   R GAIN:Adjustment value in LOW Mode +5
   G GAIN:Adjustment value in LOW Mode –5
   B GAIN:Adjustment value in LOW Mode As it is
   R BIAS:Adjustment value in LOW Mode As it is
   G BIAS:Adjustment value in LOW Mode As it is
   B BIAS:Adjustment value in LOW Mode As it is

5. Memorize the adjustment value.

3-4-3. Video W/B Adjustment

3-4-3-1. High Mode

1. Input the 15k Component signal to INPUT-A.
2. The HIGH MODE will be set.
3. Perform the following processes on the 3-3-2 adjustment value, and copy the value to the HIGH MODE.

   R GAIN:Adjustment value in LOW Mode –10
   G GAIN:Adjustment value in LOW Mode –10
   B GAIN:Adjustment value in LOW Mode –10
   R BIAS:Adjustment value in LOW Mode +1
   G BIAS:Adjustment value in LOW Mode +1
   B BIAS:Adjustment value in LOW Mode +1

4. Input the 15k Component Flat Field 80 IRE to INPUT-A.
5. Lower G GAIN, and adjust the Y value to this value.
6. Take Blue as the reference if the X value is greater than the specification, and RED as the reference when smaller.
7. Adjust to the following chromaticity at GAINs other than the reference color.
8. Memorize the adjustment value.
9. Input the 15k Component Flat Field 30 IRE to INPUT-A.
10. Adjust to the following chromaticity at BIASs other than the reference color.
11. Perform tracking adjustment so that 80IRE and 30 IRE satisfy the specification.
12. Memorize the adjustment value.

    HIGH MODE chromaticity specification:
    (x,y)=(0.275, 0.312) ± 0.005 (80IRE)
    (x,y)=(0.275, 0.312) ± 0.007 (30IRE)

3-4-3-2. Low Mode

1. Input the 15k Component signal to INPUT-A.
2. Set LOW MODE.
3. Perform the following processes on the 3-3-2 adjustment value.

   R GAIN:Adjustment value in LOW Mode –10
   G GAIN:Adjustment value in LOW Mode –10
   B GAIN:Adjustment value in LOW Mode –10
   R BIAS:Adjustment value in LOW Mode +1
   G BIAS:Adjustment value in LOW Mode +1
   B BIAS:Adjustment value in LOW Mode +1

4. Input the 15k Component Flat Field 80 IRE to INPUT-A.
5. Lower G GAIN, and adjust the Y value to this value.
6. Take Blue as the reference if the X value is greater than the specification, and RED as the reference when smaller.
7. Adjust to the following color at GAINs other than the reference color.
8. Memorize the adjustment value.
9. Input the 15k Component Flat Field 30 IRE to INPUT-A.
10. Adjust to the following color at BIASs other than the reference color.
11. Perform tracking adjustment so that 80IRE and 30IRE satisfy the specification.
12. Memorize the adjustment value.

    LOW MODE chromaticity specification:
    (x,y)=(0.283, 0.326) ± 0.005 (80IRE)
    (x,y)=(0.283, 0.326) ± 0.007 (30IRE)

3-5. ADJUSTMENT ITEM INITIALIZE DATA

Device Name	No.	OSD Display	Memory Category				
			wb	RGB High	RGB Low	Video High	Video Low
			vid	525	625	YUV	
			gm	Graphic	Text		
W/B ADJUST		R GAIN	wb	115	113		
		G GAIN	wb	115	113		
		B GAIN	wb	115	113		
		R BIAS	wb	209	209		
		G BIAS	wb	209	209		
		B BIAS	wb	209	209		
RGB MTRX	01	RGB MTRX/CONTRAST	video	44	45	50	
	02	RGB MTRX	video	35	35	35	
	03	RGB MTRX	video	7	6	7	
	04	RGB MTRX	video	7	7	7	
	05	RGB MTRX	video	12	12	10	
	06	RGB MTRX	video	13	12	12	
	07	RGB MTRX	video	6	5	5	
	08	RGB MTRX	video	10	5	5	
	09	RGB MTRX	video	8	8		
	10	RGB MTRX	video	8	11		
	11	RGB MTRX	video			8	
	12	RGB MTRX	video			15	
	13	RGB MTRX	video	3	1	1	
	14	RGB MTRX	video	2	1	1	
	15	RGB MTRX	video	0	1	2	
	16	RGB MTRX	video	0	0	0	
	17	RGB MTRX	set				
	18	RGB MTRX	video	3	3	2	
D.COM	19	D.COM/VENH	set	4			
C.DEC	20	C.DEC/Y DELAY	video	11	11		
	21	GK/ENB	set	1			
	22	GK/PKG	video	36	36		
	23	GK/SP	video	63	63		
	24	GK/CR	video	16	16		
A.P.							
P.DRV	01	P.DRV/G VCOM	set	92			
	02	P.DRV/R VCOM	set	75			
	03	P.DRV/B VCOM	set	90			
	04	P.DRV/SIG SEN	set	168			
RGB AMP	05	RGB AMP/SID LVL	set	164			
	06	RGB AMP/OSD LVL	set	70			
	07	RGB AMP/PRG LVL	set	34			
UF	08	UF/RL1	wb	50	50	50	50
	09	UF/RL2	wb	50	50	50	50
	10	UF/RL3	wb	50	50	50	50
	11	UF/BL1	wb	50	50	50	50
	12	UF/BL2	wb	50	50	50	50
	13	UF/BL3	wb	50	50	50	50
	14	UF/RP1	wb	169	169	169	169
	15	UF/RP2	wb	140	140	140	140
	16	UF/BP1	wb	169	169	169	169
	17	UF/BP2	wb	140	140	140	140

Device Name	No.	OSD Display	Memory Category				
			wb	RGB High	RGB Low	Video High	Video Low
			vid	525	625	YUV	—
			gm	Graphic	Text	—	—
GAMMA	01	GAMMA/BLK LIM	gamma	115	115		
	02	GAMMA/OSD DOT	set	150			
	03	GAMMA/G-SBRT	gamma	165	175		
	04	GAMMA/R-SBRT	gamma	175	185		
	05	GAMMA/B-SBRT	gamma	157	167		
	06	GAMMA/G GAIN	gamma	115	54		
	07	GAMMA/R GAIN	gamma	97	49		
	08	GAMMA/B GAIN	gamma	113	56		
	09	GAMMA/G B2P	gamma	245	215		
	10	GAMMA/G B1P	gamma	186	186		
	11	GAMMA/G WHP	gamma	37	37		
	12	GAMMA/R B2P	gamma	215	215		
	13	GAMMA/R B1P	gamma	190	190		
	14	GAMMA/R WHP	gamma	37	37		
	15	GAMMA/B B2P	gamma	220	220		
	16	GAMMA/B B1P	gamma	183	183		
	17	GAMMA/B WHP	gamma	37	37		
	18	GAMMA/GAMMA OFF	set	0			
TG	01	TG/SLFR	set	0			
	02	TG/GAMMA SH2	gamma	76	76		
	03	TG/GAMMA SH1	gamma	5	5		
SC	04	SC/VIDEO DIV	set	0			
	05	SC/ISHOGA	set	0			
	06	SC/IVEND MAX	status				
	07	SC/SYNCHRO Fv	status				
	08	SC/VINIT H	resolution				
	09	SC/VINIT L	resolution				
	10	SC/SLUTEN	resolution				
	11	SC/SLUT0	resolution				
	12	SC/SLUT1	resolution				
	13	SC/SLUT2	resolution				
	14	SC/SLUT3	resolution				
	15	SC/SLUT4	resolution				
	16	SC/SLUT5	resolution				
	17	SC/SLUT6	resolution				
	18	SC/SLUT7	resolution				
	19	/INSTALLATION	set	0			
	20	/TEMP LAMP	set	713			
	21	/TEMP PANEL	set	490			
	22	/BITRATE	set	0			

SECTION 4
SEMICONDUCTORS

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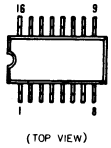
TDA4665T/V5-118



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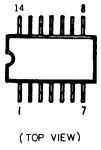

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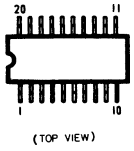

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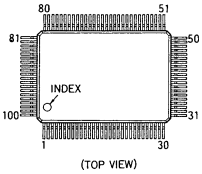

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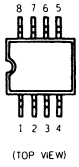

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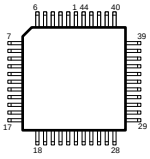

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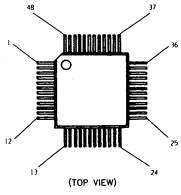

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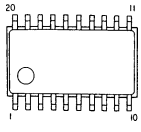

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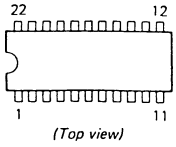

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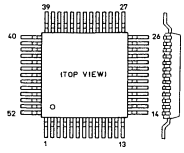

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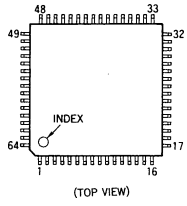

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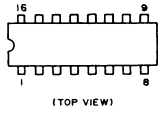

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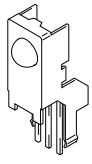

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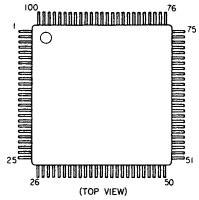

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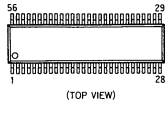

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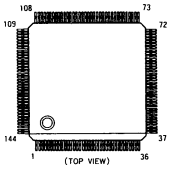

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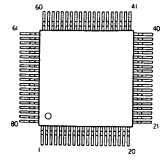

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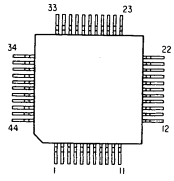

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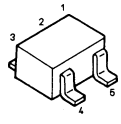

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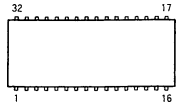

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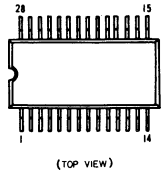

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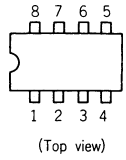

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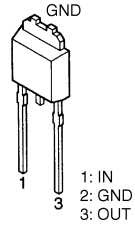

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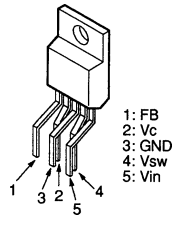

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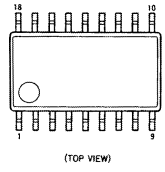

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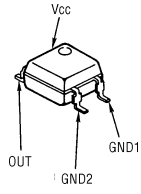

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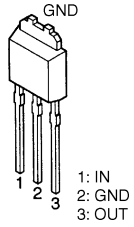

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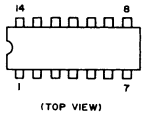

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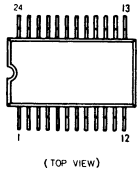
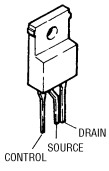
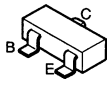


TOP222Y-BB
TOP223Y-BB



2SA1162-YC-TE85
2SA1213Y-TE12
2SA1611T1-M5M6
2SB709A-QRS-TX
2SC2712-YG-TE85
2SC3545-T1T43
DTA144EKA-T146
DTC114EKA-T146
DTC114EUA-T106
DTC144EKA-T146



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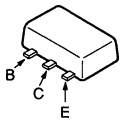
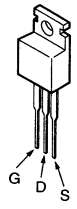
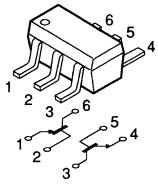


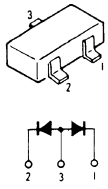
2SK3013F-02



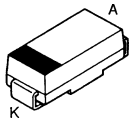
HN1B01FU-TE85R



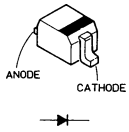
1S2836-T1
DAP202K-T-146



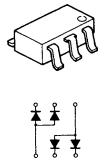
1SR154-400TE-25
D1FL20U-TA
D1FS4A-TA
HVU359TRF
SI4450DY-T1



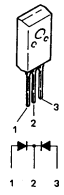
1SS355TE-17
D2FS6-TA
DTZ-TT11-12
DTZ-TT11-5.1
DTZ-TT11-6.8
RB501V-40TE-17
RD12SB3-T1
RD3.3SB2-T1
RD5.1SB-T1
RD9.1SB2-T1



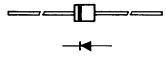
BZA456A



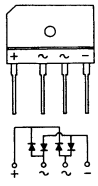
D10SC9M



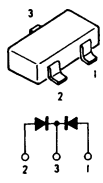
D2S4MTA1



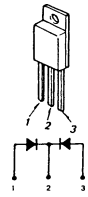
D6SB80



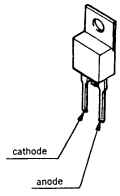
DAN202K-T-146



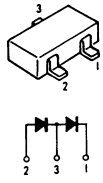
FCQ20A06



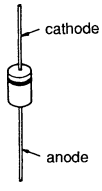
FMG-G2CS
FSF10A60



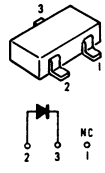
MA157-TX



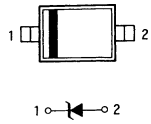
P6KE200A
P6KE300A
P6KE350A



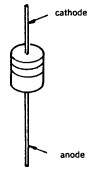
RD12M-T1B2
RD24M-T1B1
RD9.1M-T1B1



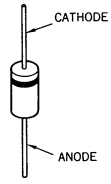
RD5.6SB2-T6



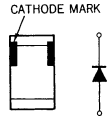
RD6.8SB2-T1



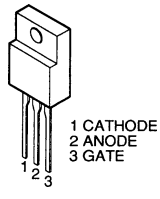
RGP10G
RGP10J



SEC1201C
SEC1401C
SEC1801C
SEC1901C



TF861S



SECTION 5
EXPLODED VIEWS

NOTE :

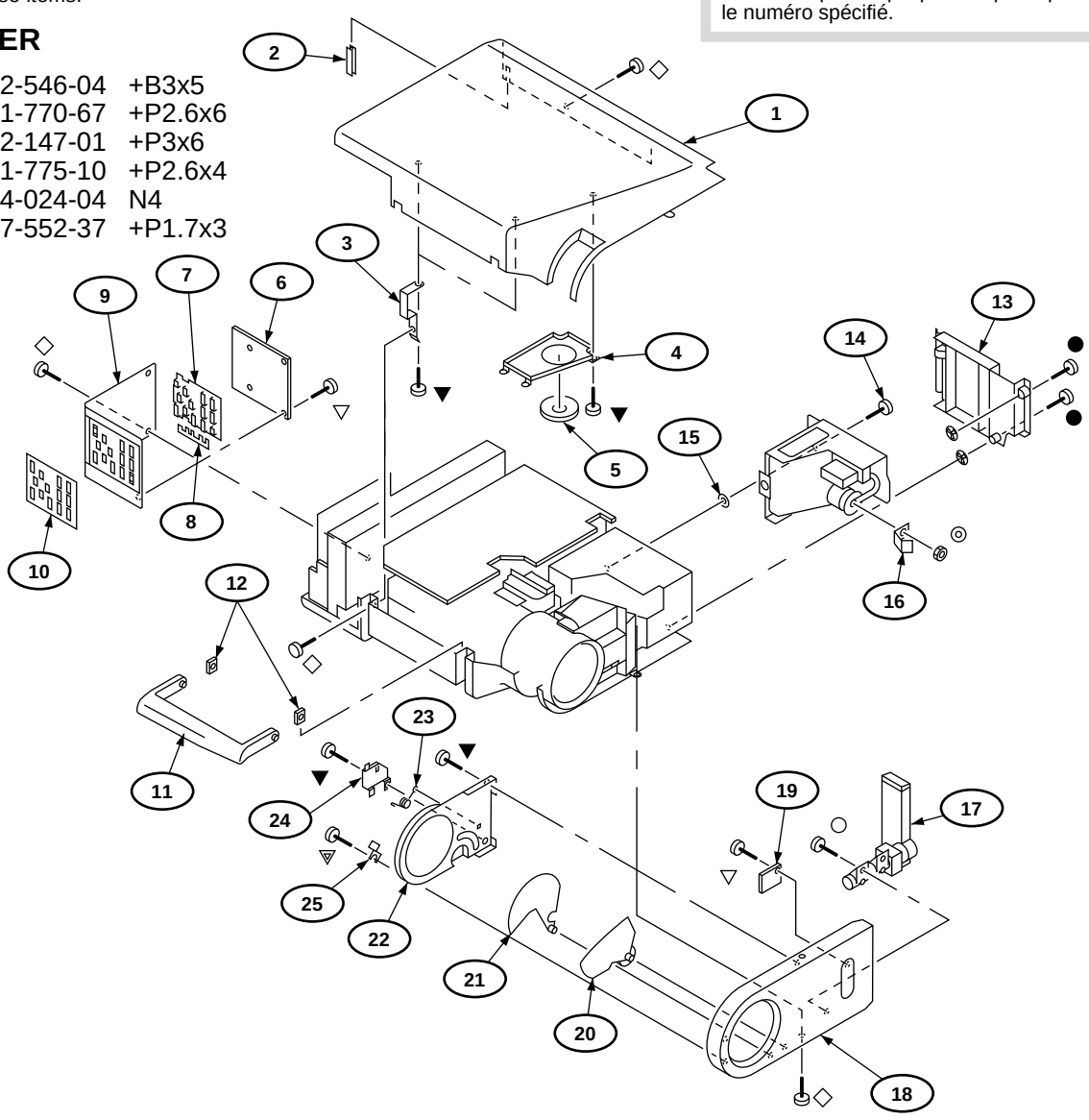
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

5-1. COVER

◇: 7-682-546-04 +B3x5
▼: 7-621-770-67 +P2.6x6
○: 7-682-147-01 +P3x6
▽: 7-621-775-10 +P2.6x4
◎: 7-684-024-04 N4
▽: 7-627-552-37 +P1.7x3

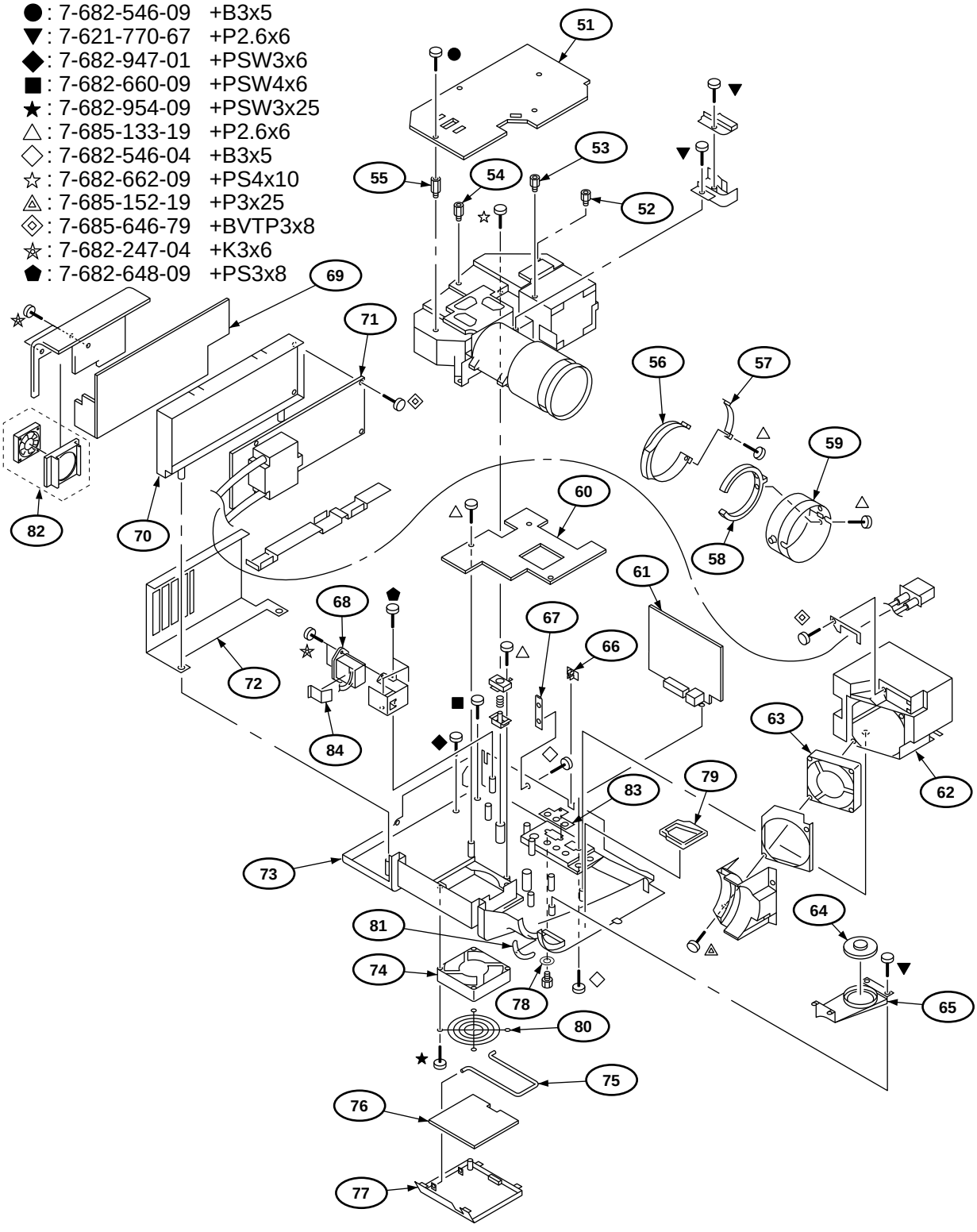


REF NO.	PART NO.	DESCRIPTION	REMARK
1	4-066-230-11	COVER (R)	
2	4-066-205-01	FOOT (RE)	
3	* 4-066-192-02	BRACKET (TP)	
4	4-066-214-01	HOLDER (R), SPEAKER	
5	1-504-688-11	SPEAKER (3.6cm)	
6	* A-1375-183-A	H COMPL	
7	4-066-224-01	BUTTON	
8	* 4-066-216-01	GUIDE, LED	
9	X-4036-346-1	PANEL ASSY, CONTROL	
10	4-066-220-11	SHEET, CONTROL	
11	4-066-219-11	HANDLE	
12	4-066-194-01	BUSH (H)	
13	X-4036-347-1	DOOR ASSY, LAMP	
14	4-396-203-01	SCREW (+B M3X12), PREVENTION	
15	* 3-715-526-01	WASHER (M3)	

REF NO.	PART NO.	DESCRIPTION	REMARK
16	* 4-065-573-01	GUARD (LMP), LIGHTING	
17	4-066-556-01	ADJUSTOR	
18	X-4036-344-1	PANEL ASSY, FRONT	
19	* 1-672-838-11	PWB, NF	
20	X-4036-345-1	SHUTTER (A) ASSY	
21	4-066-217-01	SHUTTER (B)	
22	4-066-229-01	GUIDE, SHUTTER	
23	4-066-200-01	SPRING (S)	
24	4-066-197-01	PLATE (SP)	
25	4-067-041-01	STOPPER	
26	4-067-474-01	CUSHION (R)	
27	4-067-859-01	SHEET, SLIP	
28	* 4-067-896-01	STOPPER (H)	
29	4-067-860-01	CUSHION (H)	

5-2. CHASSIS

● : 7-682-546-09 +B3x5
▼ : 7-621-770-67 +P2.6x6
◆ : 7-682-947-01 +PSW3x6
■ : 7-682-660-09 +PSW4x6
★ : 7-682-954-09 +PSW3x25
△ : 7-685-133-19 +P2.6x6
◇ : 7-682-546-04 +B3x5
☆ : 7-682-662-09 +PS4x10
◬ : 7-685-152-19 +P3x25
◈ : 7-685-646-79 +BVTP3x8
⛤ : 7-682-247-04 +K3x6
⬟ : 7-682-648-09 +PS3x8



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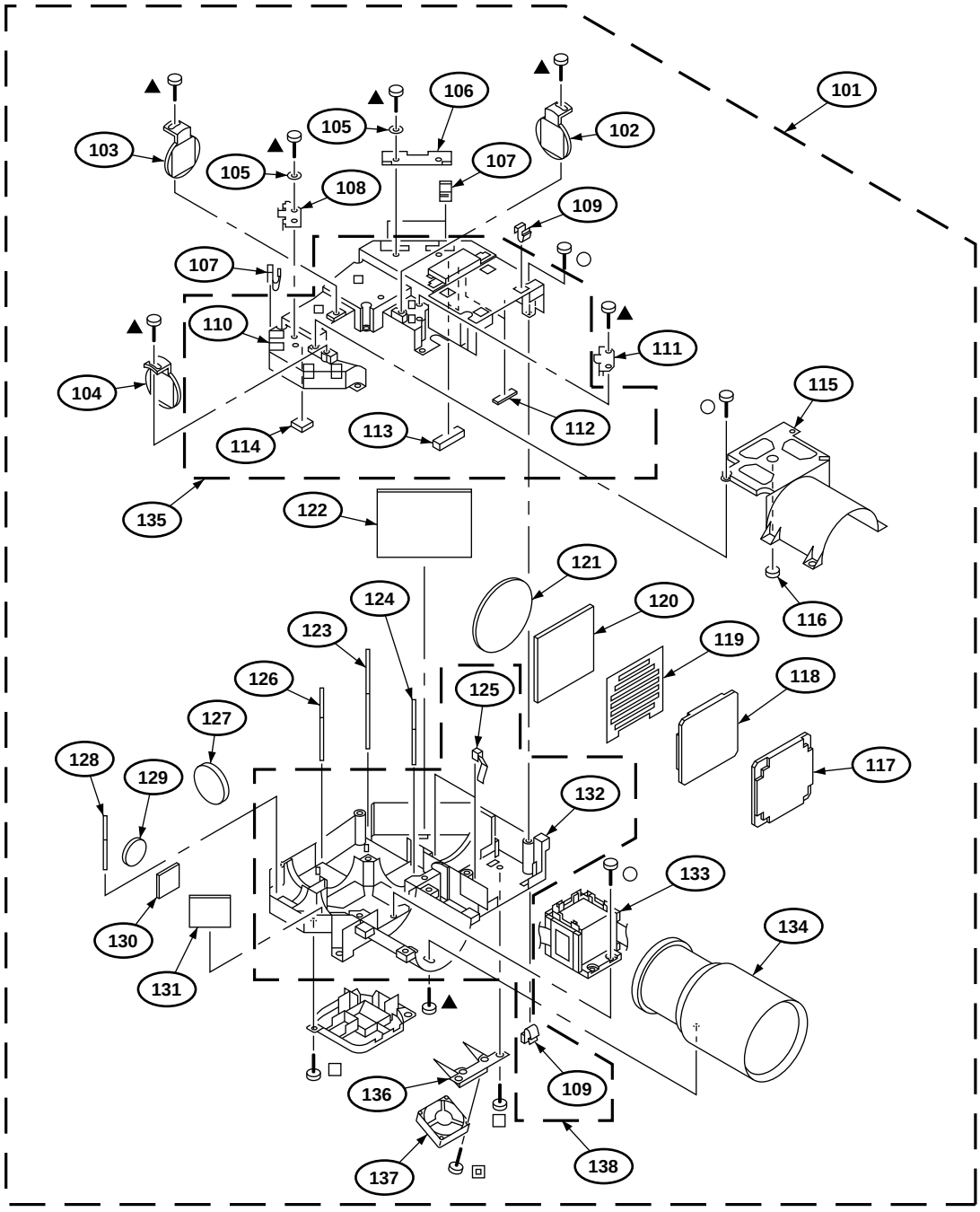
REF NO.		PART NO.	DESCRIPTION	REMARK
51		* A-1335-115-A	C COMPL	
52		4-066-549-01	SPACER	
53		4-066-549-11	SPACER	
54		4-066-549-21	SPACER	
55		4-066-549-31	SPACER	
56		4-066-221-01	RING (A), ZOOM	
57		4-066-190-01	RING (B), ZOOM	
58		4-066-196-01	SPACER, FOCUS	
59		4-066-223-01	RING, FOCUS	
60		* A-1275-170-A	QA COMPL	
61		* A-1275-171-A	QB COMPL	
62		* 4-066-228-01	HOUSE, LAMP	
63		1-763-173-11	FAN, DC	
64		1-504-688-11	SPEAKER (3.6CM)	
65		4-066-215-01	HOLDER (L), SPEAKER	
66		4-068-636-01	COVER, TERMINAL	
67		* 4-066-193-01	BRACKET (BT)	
68	⚠	1-785-843-11	INLET, AC 3P (WITH NOISE FILTER)	
69		* A-1316-430-A	GA COMPL	
70		4-066-222-02	BRACKET (PW)	
71		1-468-286-21	POWER BLOCK	
72		4-066-210-01	COVER (PW)	
73		4-066-231-11	COVER (L)	
74		1-763-172-11	FAN, DC	
75		4-066-203-01	SPRING (F)	
76		4-066-191-02	FILTER	
77		X-4036-343-1	COVER ASSY, FILTER	
78		3-701-439-11	WASHER	
79		4-067-473-01	CUSHION (L)	
80		4-067-472-01	GUARD, FINGER	
81		4-067-859-01	SHEET, SLIP	
82		X-4036-505-1	BRACKET ASSY, FAN	
83		4-069-346-01	PLATE (V)	
84		4-069-662-01	PLATE (AC)	

5-3. OPTICS

▲: 7-682-948-01 +PSW3x8
○: 7-682-547-04 +B3x6
□: 7-685-146-11 +P3x8
⧈: 7-685-196-21 +P3x18



REF NO.	PART NO.	DESCRIPTION	REMARK
101	A-1484-250-A	OPTICS BLOCK ASSY	102-139
102	4-068-800-01	LENS (OPT), B CH CONDENSER	
103	4-066-182-01	LENS (OPT), G CH CONDENSER	
104	4-066-183-01	LENS (OPT), R CH CONDENSER	
105	4-066-174-01	STOPPER (OPT), ROTATION	
106	4-066-237-01	ADJUSTTER, MIRROR (OPT)	
107	4-066-173-01	FASTENER (OPT), ADJUST MIRROR	
108	4-066-242-01	ADJUSTER, R MIRROR (OPT)	
109	4-066-172-01	FASTENER (OPT), MIRROR	
110	* 4-066-185-01	COVER (OPT), UNIT	
111	4-066-243-01	ADJUSTER, B MIRROR (OPT)	
112	* 4-066-239-01	STOPPER, FLY EYE (OPT)	
113	4-067-127-01	STOPPER, P/S (OPT)	
114	* 4-066-238-01	STOPPER (OPT), LENS	
115	* 4-066-187-01	COVER (OPT), LENS	
116	4-066-171-01	STOPPER, 4P PRISM (OPT)	
117	4-066-177-01	FLY EYE LENS-1 (OPT)	
118	* 4-066-178-01	FLY EYE LENS-2 (OPT)	
119	* 4-066-234-01	SLIT, P/S (OPT)	
120	* 4-068-802-01	CONVERSION, P/S-B (OPT)	
121	* 4-066-161-01	LENS (OPT), MAIN CONDENSER	
122	* 4-066-162-01	MIRROR (OPT), WIDE BAND	
123	* 4-066-163-01	MIRROR(OPT),B REFLECT DICHROIC	
124	* 4-066-164-01	MIRROR (OPT), B CHANNEL	
125	4-066-235-01	SPRING (OPT), FLY EYE	
126	* 4-066-165-01	MIRROR(OPT),G REFLECT DICHROIC	
127	* 4-066-166-01	LENS (OPT), RELAY-1	
128	* 4-066-167-01	MIRROR (OPT), R CHANNEL-1	
129	* 4-066-169-01	LENS (OPT), RELAY-2	
130	* 4-066-168-01	TRIMMER (OPT), R CHANNEL	
131	* 4-066-170-01	MIRROR (OPT), R CHANNEL-2	
132	* 4-066-186-01	HOUSING (OPT), UNIT	
133	A-1484-251-A	PRISM BLOCK ASSY	
134	4-068-803-01	PROJECTION LENS (OPT)	
135	* X-4036-287-1	COVER ASSY, UNIT (OPT)	110, 112-114
136	* 4-066-241-01	BRACKET (OPT), P/S FAN	
137	1-763-101-21	FAN, DC	
138	* X-4036-286-1	HOUSING ASSY, UNIT (OPT)	109, 125, 132

SECTION 6
ELECTRICAL PARTS LIST

C

NOTE :

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- PF : μμF

When indicating parts by reference number, please include the board name.

REF NO.	PART NO.	DESCRIPTION			REMARK
	* A-1335-115-A	C COMPL			
		**********			
		<CAPACITOR>			
C5004	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5005	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5006	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5007	1-115-156-11	CERAMIC CHIP	1MF		10V
C5008	1-119-667-11	CERAMIC CHIP	22MF		10V
C5009	1-128-400-11	ELECT CHIP	47MF	20%	25V
C5010	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5011	1-126-395-11	ELECT CHIP	22MF	20%	16V
C5012	1-126-395-11	ELECT CHIP	22MF	20%	16V
C5013	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5014	1-107-417-11	ELECT CHIP	33MF	20%	25V
C5015	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C5016	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C5017	1-115-156-11	CERAMIC CHIP	1MF		10V
C5019	1-119-667-11	CERAMIC CHIP	22MF		10V
C5020	1-128-400-11	ELECT CHIP	47MF	20%	25V
C5023	1-115-156-11	CERAMIC CHIP	1MF		10V
C5024	1-115-156-11	CERAMIC CHIP	1MF		10V
C5025	1-119-667-11	CERAMIC CHIP	22MF		10V
C5026	1-115-156-11	CERAMIC CHIP	1MF		10V
C5027	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5028	1-115-156-11	CERAMIC CHIP	1MF		10V
C5029	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5030	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5031	1-115-156-11	CERAMIC CHIP	1MF		10V
C5032	1-115-156-11	CERAMIC CHIP	1MF		10V
C5033	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C5034	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C5035	1-128-400-11	ELECT CHIP	47MF	20%	25V
C5037	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5038	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5039	1-115-156-11	CERAMIC CHIP	1MF		10V
C5040	1-128-400-11	ELECT CHIP	47MF	20%	25V
C5041	1-115-156-11	CERAMIC CHIP	1MF		10V
C5042	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5201	1-115-156-11	CERAMIC CHIP	1MF		10V
C5203	1-115-156-11	CERAMIC CHIP	1MF		10V
C5204	1-115-156-11	CERAMIC CHIP	1MF		10V
C5205	1-115-156-11	CERAMIC CHIP	1MF		10V
C5206	1-115-156-11	CERAMIC CHIP	1MF		10V
C5207	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C5209	1-115-156-11	CERAMIC CHIP	1MF		10V
C5210	1-115-156-11	CERAMIC CHIP	1MF		10V
C5213	1-115-156-11	CERAMIC CHIP	1MF		10V
C5218	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5219	1-115-156-11	CERAMIC CHIP	1MF		10V
C5220	1-115-156-11	CERAMIC CHIP	1MF		10V
C5221	1-115-156-11	CERAMIC CHIP	1MF		10V
C5223	1-115-156-11	CERAMIC CHIP	1MF		10V
C5224	1-115-156-11	CERAMIC CHIP	1MF		10V
C5225	1-115-156-11	CERAMIC CHIP	1MF		10V
C5226	1-115-156-11	CERAMIC CHIP	1MF		10V
C5227	1-115-156-11	CERAMIC CHIP	1MF		10V
C5228	1-115-156-11	CERAMIC CHIP	1MF		10V
C5229	1-115-156-11	CERAMIC CHIP	1MF		10V
C5230	1-115-156-11	CERAMIC CHIP	1MF		10V
C5231	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5232	1-115-156-11	CERAMIC CHIP	1MF		10V
C5233	1-115-156-11	CERAMIC CHIP	1MF		10V
C5301	1-115-156-11	CERAMIC CHIP	1MF		10V
C5303	1-115-156-11	CERAMIC CHIP	1MF		10V
C5304	1-115-156-11	CERAMIC CHIP	1MF		10V
C5305	1-115-156-11	CERAMIC CHIP	1MF		10V
C5306	1-115-156-11	CERAMIC CHIP	1MF		10V
C5307	1-115-156-11	CERAMIC CHIP	1MF		10V
C5308	1-115-156-11	CERAMIC CHIP	1MF		10V
C5309	1-115-156-11	CERAMIC CHIP	1MF		10V
C5311	1-115-156-11	CERAMIC CHIP	1MF		10V
C5312	1-115-156-11	CERAMIC CHIP	1MF		10V
C5314	1-115-156-11	CERAMIC CHIP	1MF		10V
C5315	1-115-156-11	CERAMIC CHIP	1MF		10V
C5316	1-115-156-11	CERAMIC CHIP	1MF		10V
C5317	1-115-156-11	CERAMIC CHIP	1MF		10V
C5319	1-115-156-11	CERAMIC CHIP	1MF		10V
C5401	1-115-156-11	CERAMIC CHIP	1MF		10V
C5402	1-115-156-11	CERAMIC CHIP	1MF		10V
C5403	1-115-156-11	CERAMIC CHIP	1MF		10V
C5404	1-115-156-11	CERAMIC CHIP	1MF		10V
C5405	1-115-156-11	CERAMIC CHIP	1MF		10V
C5406	1-115-156-11	CERAMIC CHIP	1MF		10V
C5407	1-115-156-11	CERAMIC CHIP	1MF		10V

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REF NO.	PART NO.	DESCRIPTION			REMARK
C5408	1-115-156-11	CERAMIC CHIP	1MF		10V
C5409	1-115-156-11	CERAMIC CHIP	1MF		10V
C5411	1-115-156-11	CERAMIC CHIP	1MF		10V
C5412	1-115-156-11	CERAMIC CHIP	1MF		10V
C5413	1-115-156-11	CERAMIC CHIP	1MF		10V
C5414	1-115-156-11	CERAMIC CHIP	1MF		10V
C5415	1-115-156-11	CERAMIC CHIP	1MF		10V
C5416	1-115-156-11	CERAMIC CHIP	1MF		10V
C5417	1-115-156-11	CERAMIC CHIP	1MF		10V
C5501	1-115-156-11	CERAMIC CHIP	1MF		10V
C5502	1-115-156-11	CERAMIC CHIP	1MF		10V
C5503	1-115-156-11	CERAMIC CHIP	1MF		10V
C5504	1-115-156-11	CERAMIC CHIP	1MF		10V
C5505	1-115-156-11	CERAMIC CHIP	1MF		10V
C5506	1-115-156-11	CERAMIC CHIP	1MF		10V
C5507	1-115-156-11	CERAMIC CHIP	1MF		10V
C5508	1-115-156-11	CERAMIC CHIP	1MF		10V
C5509	1-115-156-11	CERAMIC CHIP	1MF		10V
C5511	1-115-156-11	CERAMIC CHIP	1MF		10V
C5512	1-115-156-11	CERAMIC CHIP	1MF		10V
C5513	1-115-156-11	CERAMIC CHIP	1MF		10V
C5514	1-115-156-11	CERAMIC CHIP	1MF		10V
C5516	1-115-156-11	CERAMIC CHIP	1MF		10V
C5517	1-115-156-11	CERAMIC CHIP	1MF		10V
C5518	1-115-156-11	CERAMIC CHIP	1MF		10V
C5601	1-115-156-11	CERAMIC CHIP	1MF		10V
C5602	1-115-156-11	CERAMIC CHIP	1MF		10V
C5603	1-115-156-11	CERAMIC CHIP	1MF		10V
C5604	1-115-156-11	CERAMIC CHIP	1MF		10V
C5605	1-115-156-11	CERAMIC CHIP	1MF		10V
C5606	1-115-156-11	CERAMIC CHIP	1MF		10V
C5607	1-115-156-11	CERAMIC CHIP	1MF		10V
C5608	1-115-156-11	CERAMIC CHIP	1MF		10V
C5609	1-115-156-11	CERAMIC CHIP	1MF		10V
C5610	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5611	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5612	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5614	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5619	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C5620	1-115-156-11	CERAMIC CHIP	1MF		10V
C5621	1-115-156-11	CERAMIC CHIP	1MF		10V
C5625	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5630	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5634	1-119-667-11	CERAMIC CHIP	22MF		10V
C5636	1-115-156-11	CERAMIC CHIP	1MF		10V
C5637	1-115-156-11	CERAMIC CHIP	1MF		10V
C5639	1-115-156-11	CERAMIC CHIP	1MF		10V
C5640	1-115-156-11	CERAMIC CHIP	1MF		10V
C5641	1-115-156-11	CERAMIC CHIP	1MF		10V
C5643	1-119-667-11	CERAMIC CHIP	22MF		10V
C5644	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5645	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C5646	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C5647	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C5649	1-115-156-11	CERAMIC CHIP	1MF		10V
C5650	1-115-156-11	CERAMIC CHIP	1MF		10V
C5651	1-115-156-11	CERAMIC CHIP	1MF		10V
C5652	1-115-156-11	CERAMIC CHIP	1MF		10V
C5659	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5660	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C5662	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C5663	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5664	1-115-156-11	CERAMIC CHIP	1MF		10V
C5665	1-115-156-11	CERAMIC CHIP	1MF		10V
C5666	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5667	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5668	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5669	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5670	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5671	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5672	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C5673	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C5675	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5676	1-115-156-11	CERAMIC CHIP	1MF		10V
C5677	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5678	1-128-400-11	ELECT CHIP	47MF	20%	25V
C5679	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C5680	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C5681	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C5682	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C5683	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C5684	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C5685	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C5686	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C5687	1-109-994-11	CERAMIC CHIP	2.2MF	10%	10V
C5688	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5689	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5690	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5698	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C5702	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5703	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5704	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5705	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5706	1-115-156-11	CERAMIC CHIP	1MF		10V
C5707	1-119-667-11	CERAMIC CHIP	22MF		10V
C5708	1-115-156-11	CERAMIC CHIP	1MF		10V
C5710	1-115-156-11	CERAMIC CHIP	1MF		10V
C5711	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5712	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5713	1-128-400-11	ELECT CHIP	47MF	20%	25V
C5714	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5717	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C5718	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5719	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5720	1-117-681-11	ELECT CHIP	100MF	20%	16V
C5721	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5722	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C5723	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C5724	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5725	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5726	1-162-964-11	CERAMIC CHIP	0.001MF	10%	50V
C5727	1-162-964-11	CERAMIC CHIP	0.001MF	10%	50V
C5729	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C5801	1-119-667-11	CERAMIC CHIP	22MF		10V
C5802	1-115-156-11	CERAMIC CHIP	1MF		10V
C5804	1-115-156-11	CERAMIC CHIP	1MF		10V
C5805	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C5806	1-164-156-11	CERAMIC CHIP	0.1MF		25V

REF NO.	PART NO.	DESCRIPTION				REMARK
C5807	1-128-400-11	ELECT CHIP	47MF	20%	25V	
C5808	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5811	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C5812	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5813	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5814	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C5815	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5816	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C5817	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C5818	1-119-667-11	CERAMIC CHIP	22MF		10V	
C5819	1-115-156-11	CERAMIC CHIP	1MF		10V	
C5821	1-115-156-11	CERAMIC CHIP	1MF		10V	
C5822	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5823	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5824	1-128-400-11	ELECT CHIP	47MF	20%	25V	
C5825	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5828	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C5829	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5830	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5831	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C5832	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5833	1-164-005-11	CERAMIC CHIP	0.47MF		25V	
C5834	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C5835	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5836	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5837	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
C5838	1-164-156-11	CERAMIC CHIP	0.1MF		25V	
		<CONNECTOR>				
CN5002	* 1-580-756-21	PIN, CONNECTOR (SMD) 7P				
CN5003	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P				
CN5004	* 1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P				
CN5005	* 1-573-768-21	PIN, CONNECTOR (1.5MM) (SMD)5P				
CN5006	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P				
CN5008	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P				
CN5009	* 1-580-055-21	PIN, CONNECTOR (SMD) 2P				
CN5010	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P				
CN5011	* 1-785-306-21	CONNECTOR, BOARD TO BOARD70P				
CN5012	* 1-785-306-21	CONNECTOR, BOARD TO BOARD70P				
CN5401	* 1-691-591-11	PIN, CONNECTOR (1.5MM) (SMD)8P				
CN5701	1-774-932-21	CONNECTOR, FFC/FPC (ZIF) 32P				
CN5801	1-774-932-21	CONNECTOR, FFC/FPC (ZIF) 32P				
CN5802	1-774-932-21	CONNECTOR, FFC/FPC (ZIF) 32P				
		<DIODE>				
D5001	8-719-976-99	DIODE DTZ-TT11-5.1				
D5002	8-719-976-99	DIODE DTZ-TT11-5.1				
D5003	8-719-977-34	DIODE DTZ-TT11-12				
D5004	8-719-977-34	DIODE DTZ-TT11-12				
D5005	8-719-977-11	DIODE DTZ-TT11-6.8				
D5006	8-719-988-62	DIODE 1SS355TE-17				
D5009	8-719-055-30	DIODE D1FS4A-TA				
D5011	8-719-914-44	DIODE DAP202K				
D5012	8-719-045-55	DIODE SEC1201C				
D5013	8-719-045-55	DIODE SEC1201C				
D5014	8-719-976-99	DIODE DTZ-TT11-5.1				
D5015	8-719-976-99	DIODE DTZ-TT11-5.1				
D5016	8-719-976-99	DIODE DTZ-TT11-5.1				
D5660	8-719-031-68	DIODE HVU359TRF				
		<FERRITE BEAD>				
FB5001	1-414-760-21	INDUCTOR CHIP	0µH			
FB5002	1-414-760-21	INDUCTOR CHIP	0µH			
FB5003	1-414-760-21	INDUCTOR CHIP	0µH			
FB5030	1-414-227-11	INDUCTOR CHIP	0µH			
FB5031	1-414-760-21	INDUCTOR CHIP	0µH			
FB5032	1-414-760-21	INDUCTOR CHIP	0µH			
FB5201	1-414-760-21	INDUCTOR CHIP	0µH			
FB5202	1-414-760-21	INDUCTOR CHIP	0µH			
FB5204	1-414-760-21	INDUCTOR CHIP	0µH			
FB5206	1-414-760-21	INDUCTOR CHIP	0µH			
FB5207	1-414-760-21	INDUCTOR CHIP	0µH			
FB5208	1-414-760-21	INDUCTOR CHIP	0µH			
FB5210	1-414-748-11	FERRITE	0µH			
FB5211	1-414-748-11	FERRITE	0µH			
FB5212	1-414-760-21	INDUCTOR CHIP	0µH			
FB5213	1-414-748-11	FERRITE	0µH			
FB5301	1-414-760-21	INDUCTOR CHIP	0µH			
FB5401	1-414-760-21	INDUCTOR CHIP	0µH			
FB5501	1-414-760-21	INDUCTOR CHIP	0µH			
FB5601	1-414-760-21	INDUCTOR CHIP	0µH			
FB5602	1-414-760-21	INDUCTOR CHIP	0µH			
FB5603	1-414-760-21	INDUCTOR CHIP	0µH			
FB5604	1-414-760-21	INDUCTOR CHIP	0µH			
FB5660	1-414-760-21	INDUCTOR CHIP	0µH			
FB5661	1-414-760-21	INDUCTOR CHIP	0µH			
FB5662	1-414-760-21	INDUCTOR CHIP	0µH			
FB5701	1-414-227-11	INDUCTOR CHIP	0µH			
FB5702	1-414-227-11	INDUCTOR CHIP	0µH			
FB5703	1-414-227-11	INDUCTOR CHIP	0µH			
FB5801	1-414-227-11	INDUCTOR CHIP	0µH			
FB5802	1-414-227-11	INDUCTOR CHIP	0µH			
FB5803	1-414-227-11	INDUCTOR CHIP	0µH			
FB5804	1-414-227-11	INDUCTOR CHIP	0µH			
FB5805	1-414-227-11	INDUCTOR CHIP	0µH			
FB5806	1-414-227-11	INDUCTOR CHIP	0µH			
		<FILTER>				
FL5001	1-239-899-21	FILTER, CHIP	EMI			
FL5002	1-239-899-21	FILTER, CHIP	EMI			
FL5003	1-239-899-21	FILTER, CHIP	EMI			
FL5004	1-239-899-21	FILTER, CHIP	EMI			
FL5005	1-239-899-21	FILTER, CHIP	EMI			
FL5006	1-239-897-12	FILTER, EMI (SMD)				
FL5007	1-239-899-21	FILTER, CHIP	EMI			
FL5601	1-234-011-11	FILTER, EMI				
FL5602	1-234-011-11	FILTER, EMI				
FL5603	1-234-011-11	FILTER, EMI				
		<IC>				
IC5001	8-759-546-88	IC LM2675M-3.3				
IC5003	8-759-439-67	IC TC7W126FU(TE12R)				
IC5004	8-759-388-31	IC PQ20VZ1U				
IC5005	8-759-388-31	IC PQ20VZ1U				
IC5006	8-759-259-77	IC PQ20VZ5U				
IC5007	8-759-523-81	IC TC74VHC08FT(EL)				
IC5008	8-759-285-52	IC PC74HC02D-T				

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REF NO.	PART NO.	DESCRIPTION	REMARK
IC5012	8-759-162-80	IC MM1170BFB	
IC5013	8-759-471-25	IC BR24CF16F	
IC5014	8-759-239-92	IC TC74HC07AF	
IC5016	8-759-259-77	IC PQ20VZ5U	
IC5017	8-759-475-39	IC TC74LCX74FT(EL)	
IC5202	8-759-475-39	IC TC74LCX74FT(EL)	
IC5203	8-759-491-46	IC TC74VHCT04AFT(EL)	
IC5204	8-759-549-39	IC IP00C901	
IC5206	8-759-475-55	IC TC74LCX574FT(EL)	
IC5207	* 8-759-580-44	IC ISPLSI1016E-80LT44-SX1658-2	
IC5208	8-759-482-35	IC MC100ELT20DR2	
IC5209	8-759-491-46	IC TC74VHCT04AFT(EL)	
IC5210	8-759-491-46	IC TC74VHCT04AFT(EL)	
IC5211	8-759-523-84	IC TC74VHC14FT(EL)	
IC5212	8-759-475-43	IC TC74LCX125FT(EL)	
IC5213	8-759-475-35	IC TC74LCX04FT(EL)	
IC5301	8-759-546-23	IC IP00C702	
IC5302	8-759-531-34	IC MB81G83222-010PQ-A	
IC5401	8-759-546-23	IC IP00C702	
IC5402	8-759-531-34	IC MB81G83222-010PQ-A	
IC5501	8-759-546-23	IC IP00C702	
IC5502	8-759-531-34	IC MB81G83222-010PQ-A	
IC5601	8-759-546-24	IC HD74ALVCH162270TE	
IC5602	8-759-546-24	IC HD74ALVCH162270TE	
IC5603	8-759-369-85	IC BT121KPJ80	
IC5607	8-759-290-12	IC M62370GP-650D	
IC5608	8-752-088-08	IC CXA2111R-T6	
IC5611	8-759-066-55	IC TA75W393FU	
IC5612	8-759-066-55	IC TA75W393FU	
IC5613	8-759-523-03	IC TC74HC4066AFT(EL)	
IC5614	8-759-523-03	IC TC74HC4066AFT(EL)	
IC5660	8-759-572-46	IC MB90096PF-G-159-BND-ER	
IC5661	8-759-523-81	IC TC74VHC08FT(EL)	
IC5662	8-759-490-57	IC M52337SP	
IC5701	8-759-482-47	IC M62399FP-TE2	
IC5702	8-752-080-99	IC CXA2112R	
IC5703	8-752-080-99	IC CXA2112R	
IC5801	8-752-080-99	IC CXA2112R	
IC5802	8-752-080-99	IC CXA2112R	
IC5803	8-752-080-99	IC CXA2112R	
IC5804	8-752-080-99	IC CXA2112R	
		<COIL>	
L5002	1-416-865-21	INDUCTOR 0µH	
L5701	1-410-369-11	INDUCTOR CHIP 1µH	
L5702	1-410-369-11	INDUCTOR CHIP 1µH	
L5801	1-410-369-11	INDUCTOR CHIP 1µH	
L5802	1-410-369-11	INDUCTOR CHIP 1µH	
L5803	1-410-369-11	INDUCTOR CHIP 1µH	
L5804	1-410-369-11	INDUCTOR CHIP 1µH	
		<TRANSISTOR>	
Q5001	8-729-900-53	TRANSISTOR DTC114EK	
Q5002	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5003	8-729-101-07	TRANSISTOR 2SB798-DL	
Q5601	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5602	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5603	8-729-216-22	TRANSISTOR 2SA1162-G	
Q5604	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q5701	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5702	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5703	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5704	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5705	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
Q5706	8-729-013-28	TRANSISTOR HN1B01FU-TE85R	
		<RESISTOR>	
R5001	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5002	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5005	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5006	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5007	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5008	1-216-841-11	RES,CHIP 47K 5% 1/16W	
R5009	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5010	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5011	1-216-841-11	RES,CHIP 47K 5% 1/16W	
R5012	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5014	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5015	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5016	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5017	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5018	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5019	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5020	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5021	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5022	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5023	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5024	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5025	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5026	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5027	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5028	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5029	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5030	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5031	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R5032	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5033	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R5034	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5035	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R5036	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5037	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5038	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5039	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5040	1-216-682-11	METAL CHIP 20K 0.50% 1/10W	
R5041	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W	
R5042	1-216-644-11	METAL CHIP 510 0.50% 1/10W	
R5043	1-216-821-11	RES,CHIP 1K 5% 1/16W	
R5045	1-216-821-11	RES,CHIP 1K 5% 1/16W	
R5046	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5047	1-216-825-11	RES,CHIP 2.2K 5% 1/16W	
R5048	1-216-841-11	RES,CHIP 47K 5% 1/16W	
R5049	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5050	1-216-825-11	RES,CHIP 2.2K 5% 1/16W	
R5051	1-216-821-11	RES,CHIP 1K 5% 1/16W	
R5052	1-216-833-11	RES,CHIP 10K 5% 1/16W	
R5054	1-216-809-11	RES,CHIP 100 5% 1/16W	
R5057	1-216-833-11	RES,CHIP 10K 5% 1/16W	

REF NO.	PART NO.	DESCRIPTION			REMARK
R5059	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5061	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5063	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5064	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5069	1-216-809-11	RES,CHIP	100	5%	1/16W
R5072	1-216-809-11	RES,CHIP	100	5%	1/16W
R5074	1-218-702-11	METAL CHIP	2.7K	0.50%	1/16W
R5075	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R5076	1-216-809-11	RES,CHIP	100	5%	1/16W
R5077	1-216-809-11	RES,CHIP	100	5%	1/16W
R5079	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5081	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5082	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5083	1-216-809-11	RES,CHIP	100	5%	1/16W
R5084	1-216-809-11	RES,CHIP	100	5%	1/16W
R5085	1-216-815-11	RES,CHIP	330	5%	1/16W
R5086	1-216-815-11	RES,CHIP	330	5%	1/16W
R5087	1-216-815-11	RES,CHIP	330	5%	1/16W
R5088	1-216-815-11	RES,CHIP	330	5%	1/16W
R5089	1-216-815-11	RES,CHIP	330	5%	1/16W
R5090	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5091	1-216-864-11	SHORT	0		
R5093	1-216-864-11	SHORT	0		
R5095	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R5096	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R5097	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R5098	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R5099	1-216-685-11	METAL CHIP	27K	0.50%	1/10W
R5100	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R5101	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5102	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5103	1-216-676-11	METAL CHIP	11K	0.50%	1/10W
R5104	1-216-688-11	METAL CHIP	36K	0.50%	1/10W
R5105	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R5106	1-216-818-11	RES,CHIP	560	5%	1/16W
R5107	1-216-818-11	RES,CHIP	560	5%	1/16W
R5109	1-216-864-11	SHORT	0		
R5201	1-216-805-11	RES,CHIP	47	5%	1/16W
R5202	1-216-803-11	RES,CHIP	33	5%	1/16W
R5203	1-216-809-11	RES,CHIP	100	5%	1/16W
R5204	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5205	1-216-801-11	RES,CHIP	22	5%	1/16W
R5207	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5208	1-216-864-11	SHORT	0		
R5209	1-216-864-11	SHORT	0		
R5218	1-216-805-11	RES,CHIP	47	5%	1/16W
R5226	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5229	1-216-805-11	RES,CHIP	47	5%	1/16W
R5230	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
R5239	1-216-808-11	RES,CHIP	82	5%	1/16W
R5240	1-216-809-11	RES,CHIP	100	5%	1/16W
R5243	1-216-805-11	RES,CHIP	47	5%	1/16W
R5244	1-216-805-11	RES,CHIP	47	5%	1/16W
R5245	1-216-805-11	RES,CHIP	47	5%	1/16W
R5247	1-216-809-11	RES,CHIP	100	5%	1/16W
R5248	1-216-805-11	RES,CHIP	47	5%	1/16W
R5249	1-216-809-11	RES,CHIP	100	5%	1/16W
R5250	1-216-809-11	RES,CHIP	100	5%	1/16W
R5251	1-216-809-11	RES,CHIP	100	5%	1/16W
R5252	1-216-809-11	RES,CHIP	100	5%	1/16W
R5253	1-216-809-11	RES,CHIP	100	5%	1/16W
R5254	1-216-809-11	RES,CHIP	100	5%	1/16W
R5255	1-216-809-11	RES,CHIP	100	5%	1/16W
R5256	1-216-809-11	RES,CHIP	100	5%	1/16W
R5257	1-216-809-11	RES,CHIP	100	5%	1/16W
R5258	1-216-805-11	RES,CHIP	47	5%	1/16W
R5259	1-216-805-11	RES,CHIP	47	5%	1/16W
R5260	1-216-805-11	RES,CHIP	47	5%	1/16W
R5261	1-216-815-11	RES,CHIP	330	5%	1/16W
R5262	1-216-815-11	RES,CHIP	330	5%	1/16W
R5263	1-216-801-11	RES,CHIP	22	5%	1/16W
R5264	1-216-805-11	RES,CHIP	47	5%	1/16W
R5265	1-216-801-11	RES,CHIP	22	5%	1/16W
R5266	1-216-801-11	RES,CHIP	22	5%	1/16W
R5267	1-216-805-11	RES,CHIP	47	5%	1/16W
R5268	1-216-805-11	RES,CHIP	47	5%	1/16W
R5269	1-216-805-11	RES,CHIP	47	5%	1/16W
R5270	1-216-805-11	RES,CHIP	47	5%	1/16W
R5271	1-216-805-11	RES,CHIP	47	5%	1/16W
R5272	1-216-805-11	RES,CHIP	47	5%	1/16W
R5279	1-216-864-11	SHORT	0		
R5280	1-216-864-11	SHORT	0		
R5282	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5283	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5284	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5285	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5286	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5287	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5288	1-216-805-11	RES,CHIP	47	5%	1/16W
R5289	1-216-805-11	RES,CHIP	47	5%	1/16W
R5290	1-216-864-11	SHORT	0		
R5292	1-216-805-11	RES,CHIP	47	5%	1/16W
R5304	1-216-809-11	RES,CHIP	100	5%	1/16W
R5305	1-216-821-11	RES,CHIP	1K	5%	1/16W
R5308	1-216-864-11	SHORT	0		
R5601	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5602	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5603	1-216-805-11	RES,CHIP	47	5%	1/16W
R5604	1-216-864-11	SHORT	0		
R5606	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5608	1-218-648-11	METAL CHIP	15	0.50%	1/16W
R5609	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R5610	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R5611	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R5612	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R5613	1-216-801-11	RES,CHIP	22	5%	1/16W
R5614	1-216-801-11	RES,CHIP	22	5%	1/16W
R5615	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5616	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5617	1-216-684-91	METAL CHIP	24K	0.50%	1/10W
R5618	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R5619	1-216-839-11	RES,CHIP	33K	5%	1/16W
R5620	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W
R5621	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5622	1-216-805-11	RES,CHIP	47	5%	1/16W
R5624	1-216-805-11	RES,CHIP	47	5%	1/16W
R5625	1-216-829-11	RES,CHIP	4.7K	5%	1/16W

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REF NO.	PART NO.	DESCRIPTION			REMARK
R5626	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5627	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5628	1-216-841-11	RES,CHIP	47K	5%	1/16W
R5629	1-216-822-11	RES,CHIP	1.2K	5%	1/16W
R5630	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5631	1-218-457-11	RES,CHIP	910	5%	1/16W
R5632	1-218-457-11	RES,CHIP	910	5%	1/16W
R5633	1-218-457-11	RES,CHIP	910	5%	1/16W
R5634	1-216-805-11	RES,CHIP	47	5%	1/16W
R5636	1-216-801-11	RES,CHIP	22	5%	1/16W
R5637	1-216-801-11	RES,CHIP	22	5%	1/16W
R5638	1-216-864-11	SHORT	0		
R5641	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5647	1-216-809-11	RES,CHIP	100	5%	1/16W
R5648	1-216-809-11	RES,CHIP	100	5%	1/16W
R5649	1-216-809-11	RES,CHIP	100	5%	1/16W
R5652	1-216-805-11	RES,CHIP	47	5%	1/16W
R5653	1-216-805-11	RES,CHIP	47	5%	1/16W
R5654	1-216-805-11	RES,CHIP	47	5%	1/16W
R5655	1-216-805-11	RES,CHIP	47	5%	1/16W
R5656	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5657	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5658	1-216-624-11	METAL CHIP	75	0.50%	1/10W
R5659	1-216-805-11	RES,CHIP	47	5%	1/16W
R5660	1-216-817-11	RES,CHIP	470	5%	1/16W
R5661	1-216-809-11	RES,CHIP	100	5%	1/16W
R5663	1-216-805-11	RES,CHIP	47	5%	1/16W
R5664	1-216-805-11	RES,CHIP	47	5%	1/16W
R5665	1-216-801-11	RES,CHIP	22	5%	1/16W
R5666	1-216-809-11	RES,CHIP	100	5%	1/16W
R5667	1-216-809-11	RES,CHIP	100	5%	1/16W
R5669	1-216-809-11	RES,CHIP	100	5%	1/16W
R5671	1-216-809-11	RES,CHIP	100	5%	1/16W
R5680	1-216-864-11	SHORT	0		
R5681	1-216-045-00	RES,CHIP	680	5%	1/10W
R5682	1-216-045-00	RES,CHIP	680	5%	1/10W
R5683	1-216-045-00	RES,CHIP	680	5%	1/10W
R5684	1-216-864-11	SHORT	0		
R5685	1-216-801-11	RES,CHIP	22	5%	1/16W
R5686	1-216-801-11	RES,CHIP	22	5%	1/16W
R5693	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5694	1-218-271-11	RES,CHIP	2K	5%	1/16W
R5695	1-216-809-11	RES,CHIP	100	5%	1/16W
R5696	1-216-809-11	RES,CHIP	100	5%	1/16W
R5697	1-216-809-11	RES,CHIP	100	5%	1/16W
R5698	1-216-830-11	RES,CHIP	5.6K	5%	1/16W
R5699	1-216-805-11	RES,CHIP	47	5%	1/16W
R5700	1-216-805-11	RES,CHIP	47	5%	1/16W
R5701	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5703	1-216-809-11	RES,CHIP	100	5%	1/16W
R5704	1-216-809-11	RES,CHIP	100	5%	1/16W
R5705	1-216-809-11	RES,CHIP	100	5%	1/16W
R5706	1-216-809-11	RES,CHIP	100	5%	1/16W
R5707	1-216-809-11	RES,CHIP	100	5%	1/16W
R5708	1-216-809-11	RES,CHIP	100	5%	1/16W
R5709	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5710	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5711	1-216-825-11	RES,CHIP	2.2K	5%	1/16W

REF NO.	PART NO.	DESCRIPTION			REMARK
R5712	1-216-864-11	SHORT	0		
R5713	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5714	1-216-864-11	SHORT	0		
R5715	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5716	1-216-864-11	SHORT	0		
R5717	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R5718	1-216-789-11	RES,CHIP	2.2	5%	1/16W
R5719	1-216-789-11	RES,CHIP	2.2	5%	1/16W
R5720	1-216-789-11	RES,CHIP	2.2	5%	1/16W
R5721	1-216-789-11	RES,CHIP	2.2	5%	1/16W
R5722	1-216-789-11	RES,CHIP	2.2	5%	1/16W
R5723	1-216-789-11	RES,CHIP	2.2	5%	1/16W
R5724	1-216-864-11	SHORT	0		
R5725	1-216-864-11	SHORT	0		
R5726	1-216-864-11	SHORT	0		
R5727	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5728	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5729	1-216-864-11	SHORT	0		
R5730	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5731	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R5732	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R5733	1-216-805-11	RES,CHIP	47	5%	1/16W
R5734	1-216-805-11	RES,CHIP	47	5%	1/16W
R5735	1-216-805-11	RES,CHIP	47	5%	1/16W
R5736	1-216-805-11	RES,CHIP	47	5%	1/16W
R5737	1-216-805-11	RES,CHIP	47	5%	1/16W
R5738	1-216-805-11	RES,CHIP	47	5%	1/16W
R5739	1-216-805-11	RES,CHIP	47	5%	1/16W
R5740	1-216-805-11	RES,CHIP	47	5%	1/16W
R5741	1-216-805-11	RES,CHIP	47	5%	1/16W
R5742	1-216-805-11	RES,CHIP	47	5%	1/16W
R5743	1-216-805-11	RES,CHIP	47	5%	1/16W
R5744	1-216-805-11	RES,CHIP	47	5%	1/16W
R5745	1-216-864-11	SHORT	0		
R5746	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5747	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5748	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5752	1-216-805-11	RES,CHIP	47	5%	1/16W
R5753	1-216-805-11	RES,CHIP	47	5%	1/16W
R5754	1-216-809-11	RES,CHIP	100	5%	1/16W
R5755	1-216-809-11	RES,CHIP	100	5%	1/16W
R5756	1-216-809-11	RES,CHIP	100	5%	1/16W
R5757	1-216-809-11	RES,CHIP	100	5%	1/16W
R5764	1-216-805-11	RES,CHIP	47	5%	1/16W
R5805	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5806	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5807	1-216-864-11	SHORT	0		
R5808	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5809	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R5810	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R5811	1-216-805-11	RES,CHIP	47	5%	1/16W
R5812	1-216-805-11	RES,CHIP	47	5%	1/16W
R5813	1-216-805-11	RES,CHIP	47	5%	1/16W
R5814	1-216-805-11	RES,CHIP	47	5%	1/16W
R5815	1-216-805-11	RES,CHIP	47	5%	1/16W
R5816	1-216-805-11	RES,CHIP	47	5%	1/16W
R5817	1-216-805-11	RES,CHIP	47	5%	1/16W
R5818	1-216-805-11	RES,CHIP	47	5%	1/16W
R5819	1-216-805-11	RES,CHIP	47	5%	1/16W

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REF NO.	PART NO.	DESCRIPTION			REMARK
R5820	1-216-805-11	RES,CHIP	47	5%	1/16W
R5821	1-216-805-11	RES,CHIP	47	5%	1/16W
R5822	1-216-805-11	RES,CHIP	47	5%	1/16W
R5823	1-216-864-11	SHORT	0		
R5824	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5825	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5826	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5831	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5832	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5833	1-216-864-11	SHORT	0		
R5834	1-216-845-11	RES,CHIP	100K	5%	1/16W
R5835	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R5836	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R5837	1-216-805-11	RES,CHIP	47	5%	1/16W
R5838	1-216-805-11	RES,CHIP	47	5%	1/16W
R5839	1-216-805-11	RES,CHIP	47	5%	1/16W
R5840	1-216-805-11	RES,CHIP	47	5%	1/16W
R5841	1-216-805-11	RES,CHIP	47	5%	1/16W
R5842	1-216-805-11	RES,CHIP	47	5%	1/16W
R5843	1-216-805-11	RES,CHIP	47	5%	1/16W
R5844	1-216-805-11	RES,CHIP	47	5%	1/16W
R5845	1-216-805-11	RES,CHIP	47	5%	1/16W
R5846	1-216-805-11	RES,CHIP	47	5%	1/16W
R5847	1-216-805-11	RES,CHIP	47	5%	1/16W
R5848	1-216-805-11	RES,CHIP	47	5%	1/16W
R5849	1-216-864-11	SHORT	0		
R5850	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5851	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5852	1-216-833-11	RES,CHIP	10K	5%	1/16W
R5853	1-216-805-11	RES,CHIP	47	5%	1/16W
R5854	1-216-797-11	RES,CHIP	10	5%	1/16W
R5901	1-216-805-11	RES,CHIP	47	5%	1/16W
R5908	1-216-864-11	SHORT	0		
R5909	1-216-864-11	SHORT	0		
R5910	1-216-864-11	SHORT	0		
R5911	1-216-864-11	SHORT	0		
R5912	1-216-864-11	SHORT	0		
R5913	1-216-864-11	SHORT	0		
R5920	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R5921	1-216-864-11	SHORT	0		
R5922	1-216-818-11	RES,CHIP	560	5%	1/16W
R5923	1-216-809-11	RES,CHIP	100	5%	1/16W
		<THERMISTOR>			
TH5001	1-808-656-11	THERMISTOR			
TH5002	1-808-656-11	THERMISTOR			
		<TEST PIN>			
TP5001	1-535-757-11	CHIP, CHECKER			
TP5002	1-535-757-11	CHIP, CHECKER			
TP5003	1-535-757-11	CHIP, CHECKER			
TP5004	1-535-757-11	CHIP, CHECKER			
TP5005	1-535-757-11	CHIP, CHECKER			
TP5006	1-535-757-11	CHIP, CHECKER			
TP5007	1-535-757-11	CHIP, CHECKER			
TP5008	1-535-757-11	CHIP, CHECKER			
TP5203	1-535-757-11	CHIP, CHECKER			
TP5204	1-535-757-11	CHIP, CHECKER			

REF NO.	PART NO.	DESCRIPTION			REMARK
TP5601	1-535-757-11	CHIP, CHECKER			
TP5602	1-535-757-11	CHIP, CHECKER			
TP5603	1-535-757-11	CHIP, CHECKER			
TP5604	1-535-757-11	CHIP, CHECKER			
TP5605	1-535-757-11	CHIP, CHECKER			
TP5606	1-535-757-11	CHIP, CHECKER			
TP5607	1-535-757-11	CHIP, CHECKER			
TP5608	1-535-757-11	CHIP, CHECKER			
TP5609	1-535-757-11	CHIP, CHECKER			
TP5610	1-535-757-11	CHIP, CHECKER			
TP5701	1-535-757-11	CHIP, CHECKER			
TP5702	1-535-757-11	CHIP, CHECKER			
TP5703	1-535-757-11	CHIP, CHECKER			
TP5704	1-535-757-11	CHIP, CHECKER			
TP5801	1-535-757-11	CHIP, CHECKER			
TP5802	1-535-757-11	CHIP, CHECKER			
TP5803	1-535-757-11	CHIP, CHECKER			
TP5804	1-535-757-11	CHIP, CHECKER			
TP5805	1-535-757-11	CHIP, CHECKER			
TP5806	1-535-757-11	CHIP, CHECKER			
		<CRYSTAL>			
X5001	1-767-347-11	VIBRATOR, CRYSTAL (16MHz)			
X5201	1-781-289-21	OSCILLATOR, CRYSTAL (68MHz)			
X5202	1-781-063-21	OSCILLATOR, CRYSTAL (70MHz)			
**********					
	* A-1316-430-A	GA COMPL			
		**********			
	1-533-223-11	HOLDER, FUSE			
	1-543-923-11	FERRITE	0µH		
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE			
	* 4-374-846-11	COVER, CAPACITOR, CAP TYPE			
	7-682-648-09	SCREW +PS 3X8			
		<CAPACITOR>			
C9001 ⚠	1-113-907-51	CERAMIC	0.0022MF	20%	250V
C9002 ⚠	1-113-907-51	CERAMIC	0.0022MF	20%	250V
C9003 ⚠	1-113-513-11	FILM	1MF	20%	275V
C9004 ⚠	1-113-511-11	FILM	0.47MF	20%	275V
C9005 ⚠	1-115-166-11	FILM	0.22MF	20%	275V
C9006 ⚠	1-113-907-51	CERAMIC	0.0022MF	20%	250V
C9007 ⚠	1-113-907-51	CERAMIC	0.0022MF	20%	250V
C9008	1-125-991-11	ELECT CHIP	180MF	20%	450V
C9009	1-137-477-11	FILM	0.47MF	10%	400V
C9012	1-107-792-11	CERAMIC	100PF	5%	1KV
C9013	1-129-720-00	FILM	0.033MF	5%	630V
C9014	1-115-785-91	ELECT	470MF	20%	25V
C9015	1-107-889-11	ELECT	220MF	20%	25V
C9016	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C9017	1-107-888-11	ELECT	47MF	20%	25V
C9018	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C9019	1-130-202-00	FILM	0.022MF	5%	400V
C9020	1-115-742-11	ELECT	0.0027F	20%	10V
C9021	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C9024	1-107-909-11	ELECT	47MF	20%	16V
C9025	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C9030	1-113-903-11	CERAMIC	0.001MF	20%	250V
C9031	1-109-879-11	ELECT MELF	22PF	5%	1KV

GA GAA

REF NO.		PART NO.	DESCRIPTION				REMARK
C9040		1-107-679-91	ELECT	10MF	20%	450V	
C9041		1-107-679-91	ELECT	10MF	20%	450V	
			<CONNECTOR>				
CN9001		* 1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P				
CN9002		* 1-774-247-11	CONNECTOR, BOARD TO BOARD 5P				
CN9004		* 1-774-248-11	CONNECTOR, BOARD TO BOARD 8P				
CN9005		* 1-774-247-11	CONNECTOR, BOARD TO BOARD 5P				
CN9006		* 1-774-248-11	CONNECTOR, BOARD TO BOARD 8P				
CN9010		1-695-915-11	TAB (CONTACT)				
			<DIODE>				
D9001		8-719-066-76	DIODE TF861S				
D9002	⚠	8-719-066-75	DIODE D6SB80				
D9003		8-719-060-06	DIODE FSF10A60				
D9004		8-719-055-30	DIODE D1FS4A-TA				
D9006		8-719-055-30	DIODE D1FS4A-TA				
D9008		8-719-059-24	DIODE P6KE200A				
D9009		8-719-961-04	DIODE RGP10J				
D9010		8-719-022-97	DIODE D2S4MF				
D9011		8-719-300-33	DIODE RU-3AM				
D9012		8-719-104-34	DIODE 1S2836				
D9013		8-719-106-71	DIODE RD12M-B2				
D9014		8-719-053-50	DIODE FCQ20A06				
D9015		8-719-051-96	DIODE FMG-G2CS				
D9017		8-719-053-50	DIODE FCQ20A06				
D9018		8-719-071-96	DIODE P6KE350A				
D9020		8-719-071-96	DIODE P6KE350A				
D9022		8-719-055-33	DIODE D1FL40				
D9025		8-719-106-43	DIODE RD9.1M-B1				
D9026		8-719-106-43	DIODE RD9.1M-B1				
D9031		8-719-071-96	DIODE P6KE350A				
D9032		8-719-071-96	DIODE P6KE350A				
D9033		8-719-961-04	DIODE RGP10J				
D9034		8-719-073-36	DIODE P6KE300A				
			<FUSE>				
F9001	⚠	1-576-233-41	FUSE (H.B.C.)(6.3A/250V)				
			<FERRITE BEAD>				
FB9001		1-410-396-41	FERRITE	0µH			
			<IC>				
IC9001		8-759-487-72	IC TOP222Y-BB				
IC9002		8-759-470-64	IC TOP223Y-BB				
			<COIL>				
L9001	⚠	1-416-461-11	INDUCTOR	60µH			
L9002	⚠	1-431-838-11	TRANSFORMER, LINE FILTER				
L9003		1-416-754-21	INDUCTOR	0µH			
L9004		1-406-976-11	INDUCTOR	68µH			
			<PHOTO COUPLER>				
PH9001		1-749-010-64	PHOTO COUPLER PC123F2				
PH9002		1-749-010-64	PHOTO COUPLER PC123F2				

REF NO.		PART NO.	DESCRIPTION				REMARK
			<IC LINK>				
PS9001	⚠	1-533-282-21	LINK, IC (2A)				
PS9004	⚠	1-576-124-11	LINK, IC (1A)				
			<TRANSISTOR>				
Q9001		8-729-043-15	TRANSISTOR 2SK3013F-02				
Q9003		8-729-230-49	TRANSISTOR 2SC2712-YG				
			<RESISTOR>				
R9002		1-220-336-11	RES,CHIP	220K	5%	1/2W	
R9003		1-220-336-11	RES,CHIP	220K	5%	1/2W	
R9004	⚠	1-202-882-91	SOLID	560K	20%	1/2W	
R9005		1-216-025-91	RES,CHIP	100	5%	1/10W	
R9008		1-216-003-11	RES,CHIP	12	5%	1/10W	
R9009		1-216-077-00	RES,CHIP	15K	5%	1/10W	
R9013		1-217-156-00	REGISTER	0.22	10%	5W	F
R9015		1-249-389-11	CARBON	4.7	5%	1/4W	F
R9016		1-216-009-91	RES,CHIP	22	5%	1/10W	
R9017		1-216-311-00	RES,CHIP	6.8	5%	1/10W	
R9018		1-216-075-00	RES,CHIP	12K	5%	1/10W	
R9019		1-216-025-91	RES,CHIP	100	5%	1/10W	
R9020		1-216-689-11	RES,CHIP	39K	5%	1/10W	
R9023		1-216-311-00	RES,CHIP	6.8	5%	1/10W	
R9025		1-216-049-91	RES,CHIP	1K	5%	1/10W	
R9026		1-249-389-11	CARBON	4.7	5%	1/4W	F
R9027		1-219-363-11	FUSIBLE	5.6	5%	5W	F
R9028		1-220-299-91	RES,CHIP	5.6K	5%	1/2W	
R9069		1-220-337-11	RES,CHIP	270K	5%	1/2W	
R9070		1-220-337-11	RES,CHIP	270K	5%	1/2W	
R9072		1-220-297-11	RES,CHIP	3.3K	5%	1/2W	
R9074		1-215-927-00	METAL OXIDE	47K	5%	3W	F
R9075		1-215-927-00	METAL OXIDE	47K	5%	3W	F
			<TRANSFORMER>				
T9001	⚠	1-431-680-11	TRANSFORMER, CONVERTER (SRT)				
T9002	⚠	1-431-999-11	TRANSFORMER, CONVERTER (SRT)				
			<VARISTOR>				
VD9001	⚠	1-801-073-41	VARISTOR ERZV14D471				
VD9002		1-803-136-11	VARISTOR ZP2600				
VD9003	⚠	1-801-073-41	VARISTOR ERZV14D471				
VD9004	⚠	1-801-073-41	VARISTOR ERZV14D471				

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GAA MOUNT
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<CAPACITOR>

C8001		1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C8012		1-163-003-11	CERAMIC CHIP	330PF	10%	50V	
C8013		1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V	
C8014		1-164-492-11	CERAMIC CHIP	0.15MF	10%	16V	
C8015		1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C8016		1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C8033		1-107-417-11	ELECT CHIP	33MF	20%	25V	
C8034		1-165-319-11	CERAMIC CHIP	0.1MF		50V	
C8035		1-107-417-11	ELECT CHIP	33MF	20%	25V	
C8041		1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V	

REF NO.	PART NO.	DESCRIPTION			REMARK
		<CONNECTOR>			
CN8004	* 1-774-244-11	CONNECTOR, BOARD TO BOARD 5P			
CN8005	* 1-774-245-11	CONNECTOR, BOARD TO BOARD 8P			
		<IC>			
IC8001	8-759-485-61	IC FA5331P			
		<TRANSISTOR>			
Q8003	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R8013	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8014	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8016	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R8017	1-216-101-00	RES,CHIP	150K	5%	1/10W
R8018	1-216-085-00	RES,CHIP	33K	5%	1/10W
R8019	1-216-005-00	RES,CHIP	15	5%	1/10W
R8022	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R8028	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R8032	1-216-629-11	METAL CHIP	120	0.50%	1/10W
R8036	1-216-025-91	RES,CHIP	100	5%	1/10W
R8037	1-216-689-11	RES,CHIP	39K	5%	1/10W
R8038	1-216-075-00	RES,CHIP	12K	5%	1/10W
R8039	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R8041	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R8051	1-215-481-00	METAL	330K	1%	1/4W
R8052	1-215-483-00	METAL	390K	1%	1/4W
R8053	1-215-485-00	METAL	470K	1%	1/4W
R8054	1-215-483-00	METAL	390K	1%	1/4W
R8055	1-215-481-00	METAL	330K	1%	1/4W
R8056	1-215-483-00	METAL	390K	1%	1/4W
R8057	1-215-481-00	METAL	330K	1%	1/4W
R8058	1-215-483-00	METAL	390K	1%	1/4W
R8059	1-215-483-00	METAL	390K	1%	1/4W
R8060	1-215-491-00	METAL	820K	1%	1/4W
R8061	1-215-483-00	METAL	390K	1%	1/4W
R8062	1-215-491-00	METAL	820K	1%	1/4W

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GB MOUNT
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		<CAPACITOR>			
C7001	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7002	1-107-417-11	ELECT CHIP	33MF	20%	25V
C7003	1-115-784-11	ELECT	270MF	20%	25V
C7004	1-107-417-11	ELECT CHIP	33MF	20%	25V
C7005	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7006	1-104-607-11	ELECT CHIP	47MF	20%	16V
C7007	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C7008	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7009	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7010	1-107-419-21	ELECT CHIP	22MF	20%	35V
C7011	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7012	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C7013	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C7014	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7015	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C7016	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7017	1-107-419-21	ELECT CHIP	22MF	20%	35V
C7018	1-115-784-11	ELECT	270MF	20%	25V
C7019	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7020	1-107-418-11	ELECT CHIP	10MF	20%	35V
C7021	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C7022	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C7023	1-107-417-11	ELECT CHIP	33MF	20%	25V
C7024	1-107-417-11	ELECT CHIP	33MF	20%	25V
C7025	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7026	1-107-417-11	ELECT CHIP	33MF	20%	25V
C7030	1-115-339-11	CERAMIC CHIP	0.1MF	10%	50V
C7031	1-107-417-11	ELECT CHIP	33MF	20%	25V
C7040	1-111-087-11	ELECT	330MF	20%	35V
C7042	1-115-785-91	ELECT	470MF	20%	25V
C7052	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C7053	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C7054	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C7055	1-128-590-11	ELECT CHIP	100MF	20%	6.3V
C7061	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C7062	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C7076	1-104-607-11	ELECT CHIP	47MF	20%	16V
C7077	1-104-607-11	ELECT CHIP	47MF	20%	16V
		<CONNECTOR>			
CN7008	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7101	* 1-774-244-11	CONNECTOR, BOARD TO BOARD 5P			
CN7102	* 1-774-245-11	CONNECTOR, BOARD TO BOARD 8P			
CN7103	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN7104	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7105	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN7106	* 1-564-507-11	PLUG, CONNECTOR 4P			
CN7107	* 1-564-515-11	PLUG, CONNECTOR 12P			
CN7109	* 1-564-506-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D7001	8-719-914-43	DIODE DAN202K			
D7002	8-719-055-30	DIODE D1FS4A-TA			
D7008	8-719-055-30	DIODE D1FS4A-TA			
D7009	8-719-055-30	DIODE D1FS4A-TA			
D7010	8-719-055-30	DIODE D1FS4A-TA			
D7011	8-719-073-52	DIODE D2FS6-TA			
D7012	8-719-073-52	DIODE D2FS6-TA			
D7015	8-719-510-41	DIODE D10SC9M			
D7016	8-719-510-41	DIODE D10SC9M			
D7020	8-719-914-43	DIODE DAN202K			
D7022	8-719-106-71	DIODE RD12M-B2			
D7023	8-719-106-71	DIODE RD12M-B2			
D7028	8-719-107-42	DIODE RD24M-T1B1			
D7031	8-719-110-08	DIODE RD8.2ESB2			
D7045	8-719-110-72	DIODE RD30ESB2			
		<IC>			
IC7001	8-759-388-31	IC PQ20VZ1U			
IC7002	8-759-157-17	IC PQ05SZ1U			
IC7005	8-759-388-23	IC TL431BCDR2			
IC7008	8-759-557-46	IC LTC1624IS8-E2			
IC7009	8-759-557-46	IC LTC1624IS8-E2			

REF NO.	PART NO.	DESCRIPTION				REMARK
IC7010	8-759-388-31	IC PQ20VZ1U				
		<COIL>				
L7001	1-416-948-21	COIL, CHOKE	10MMH			
L7002	1-406-661-11	INDUCTOR	22µH			
L7003	1-406-666-61	INDUCTOR	150µH			
L7005	1-416-949-21	COIL, CHOKE	15MMH			
L7006	1-416-948-21	COIL, CHOKE	10MMH			
L7007	1-416-948-21	COIL, CHOKE	10MMH			
L7008	1-406-661-11	INDUCTOR	22µH			
		<IC LINK>				
PS7001 ⚠	1-533-282-21	LINK, IC (2A)				
PS7002 ⚠	1-576-124-11	LINK, IC (1A)				
PS7003 ⚠	1-533-282-21	LINK, IC (2A)				
		<TRANSISTOR>				
Q7001	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q7002	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q7003	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q7004	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q7007	8-729-040-83	TRANSISTOR SI4450DY-T1				
Q7008	8-729-040-83	TRANSISTOR SI4450DY-T1				
Q7010	8-729-807-51	TRANSISTOR 2SD1623-S				
Q7079	8-729-230-49	TRANSISTOR 2SC2712-YG				
		<RESISTOR>				
R7001	1-220-267-11	RES,CHIP	180	5%	1/2W	
R7002	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7003	1-218-756-11	METAL CHIP	150K	0.50%	1/10W	
R7004	1-216-295-91	SHORT	0			
R7005	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R7006	1-216-662-11	METAL CHIP	3K	0.50%	1/10W	
R7007	1-216-689-11	METAL CHIP	39K	0.50%	1/10W	
R7009	1-216-639-11	METAL CHIP	330	0.50%	1/10W	
R7014	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R7015	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7016	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7017	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W	
R7018	1-216-654-11	METAL CHIP	1.3K	0.50%	1/10W	
R7019	1-216-654-11	METAL CHIP	1.3K	0.50%	1/10W	
R7020	1-216-435-11	METAL OXIDE	2.7K	5%	1W	F
R7029	1-220-270-11	RES,CHIP	390	5%	1/2W	
R7031	1-216-669-11	METAL CHIP	5.6K	0.50%	1/10W	
R7032	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	
R7036	1-216-025-91	RES,CHIP	100	5%	1/10W	
R7037	1-216-699-11	METAL CHIP	100K	0.50%	1/10W	
R7038	1-216-679-11	METAL CHIP	15K	0.50%	1/10W	
R7039	1-216-677-11	METAL CHIP	12K	0.50%	1/10W	
R7040	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R7041	1-216-041-00	RES,CHIP	470	5%	1/10W	
R7042	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7043	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7044	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	
R7045	1-216-041-00	RES,CHIP	470	5%	1/10W	
R7046	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7047	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7048	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7049	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7050	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R7051	1-216-025-91	RES,CHIP	100	5%	1/10W	
R7052	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R7053	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7054	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R7055	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R7057	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R7058	1-240-247-91	REGISTER	0.1	5%	1/2W	
R7059	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
R7060	1-240-247-91	REGISTER	0.1	5%	1/2W	
R7061	1-216-041-00	RES,CHIP	470	5%	1/10W	
R7062	1-216-041-00	RES,CHIP	470	5%	1/10W	
R7063	1-216-041-00	RES,CHIP	470	5%	1/10W	
R7064	1-216-041-00	RES,CHIP	470	5%	1/10W	
R7065	1-249-389-11	CARBON	4.7	5%	1/4W	F
R7070	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7071	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R7077	1-216-029-00	RES,CHIP	150	5%	1/10W	
R7078	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R7079	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R7080	1-216-093-91	RES,CHIP	68K	5%	1/10W	
R7081	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W	
R7082	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R7083	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R7084	1-220-274-11	RES,CHIP	1.2K	5%	1/2W	
R7085	1-220-274-11	RES,CHIP	1.2K	5%	1/2W	
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	* A-1375-183-A	H COMPL				
		**********				
		<CAPACITOR>				
C6001	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
		<CONNECTOR>				
CN6001	* 1-764-007-11	PIN, CONNECTOR (SMD) 12P				
		<DIODE>				
D6001	8-719-914-43	DIODE DAN202K				
D6002	8-719-914-44	DIODE DAP202K				
D6003	8-719-045-61	DIODE SEC1901C				
D6004	8-719-045-61	DIODE SEC1901C				
D6005	8-719-045-51	DIODE SEC2422C				
D6007	8-719-045-53	DIODE SEC1801C				
D6008	8-719-914-43	DIODE DAN202K				
D6009	8-719-914-43	DIODE DAN202K				
D6010	8-719-914-43	DIODE DAN202K				
D6011	8-719-914-44	DIODE DAP202K				
D6012	8-719-914-44	DIODE DAP202K				
D6013	8-719-914-44	DIODE DAP202K				
D6014	8-719-045-60	DIODE SEC1401C				
D6015	8-719-045-53	DIODE SEC1801C				
D6016	8-719-045-53	DIODE SEC1801C				
D6017	8-719-045-53	DIODE SEC1801C				
D6018	8-719-045-53	DIODE SEC1801C				
D6019	8-719-045-53	DIODE SEC1801C				
D6020	8-719-045-53	DIODE SEC1801C				

REF NO.	PART NO.	DESCRIPTION			REMARK
D6021	8-719-045-53	DIODE SEC1801C			
D6022	8-719-045-53	DIODE SEC1801C			
D6023	8-719-045-53	DIODE SEC1801C			
D6024	8-719-045-53	DIODE SEC1801C			
D6025	8-719-045-53	DIODE SEC1801C			
D6026	8-719-045-53	DIODE SEC1801C			
D6027	8-719-045-53	DIODE SEC1801C			
D6030	8-719-159-10	DIODE RD5.1SB-T2			
		<IC>			
IC6001	8-719-066-43	DIODE GP1U28Y			
		<TRANSISTOR>			
Q6001	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q6002	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q6005	8-729-230-49	TRANSISTOR 2SC2712-YG			
		<RESISTOR>			
R6001	1-216-083-00	RES,CHIP	27K	5%	1/10W
R6002	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6003	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6004	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R6005	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6006	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6007	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6008	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R6009	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6010	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6011	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R6012	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6013	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6014	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6015	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R6016	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6017	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6018	1-216-037-00	RES,CHIP	330	5%	1/10W
R6019	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6020	1-216-035-00	RES,CHIP	270	5%	1/10W
R6021	1-216-039-00	RES,CHIP	390	5%	1/10W
R6023	1-216-029-00	RES,CHIP	150	5%	1/10W
R6025	1-216-029-00	RES,CHIP	150	5%	1/10W
R6027	1-216-029-00	RES,CHIP	150	5%	1/10W
R6029	1-216-029-00	RES,CHIP	150	5%	1/10W
R6031	1-216-029-00	RES,CHIP	150	5%	1/10W
R6033	1-216-029-00	RES,CHIP	150	5%	1/10W
R6035	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6038	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6041	1-216-025-91	RES,CHIP	100	5%	1/10W
		<SWITCH>			
S6001	1-771-105-11	SWITCH, TACTILE (LEFT)			
S6002	1-771-105-11	SWITCH, TACTILE (RIGHT)			
S6003	1-771-105-11	SWITCH, TACTILE (DOWN)			
S6004	1-771-105-11	SWITCH, TACTILE (UP)			
S6005	1-771-105-11	SWITCH, TACTILE (ENTER)			
S6006	1-771-105-11	SWITCH, TACTILE (MENU)			
S6007	1-771-105-11	SWITCH, TACTILE (INPUT)			
S6008	1-771-105-11	SWITCH, TACTILE (POWER)			
S6010	1-771-105-11	SWITCH, TACTILE (DOT P)			
S6011	1-771-105-11	SWITCH, TACTILE (VOL -)			
S6012	1-771-105-11	SWITCH, TACTILE (VOL +)			
S6013	1-771-105-11	SWITCH, TACTILE (RESET)			
S6014	1-771-105-11	SWITCH, TACTILE (LIGHT)			
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	* 1-672-838-11	PWB, NF			
		**********			
		<CAPACITOR>			
C4007	1-113-985-11	TANTAL. CHIP	10MF	20%	20V
		<CONNECTOR>			
CN4001	* 1-580-056-21	PIN, CONNECTOR (SMD) 3P			
		<IC>			
IC4001	8-749-012-17	IC RS-140-T			
		<RESISTOR>			
R4001	1-216-017-91	RES,CHIP	47	5%	1/10W
R4002	1-216-025-91	RES,CHIP	100	5%	1/10W
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	* A-1275-170-A	QA COMPL			
		**********			
		<CAPACITOR>			
C1001	1-126-204-11	ELECT CHIP	47MF	20%	16V
C1002	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1003	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1005	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1006	1-113-985-11	TANTAL. CHIP	10MF	20%	20V
C1007	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1008	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C1009	1-126-204-11	ELECT CHIP	47MF	20%	16V
C1010	1-126-204-11	ELECT CHIP	47MF	20%	16V
C1012	1-135-214-21	TANTAL. CHIP	4.7MF	20%	20V
C1014	1-135-214-21	TANTAL. CHIP	4.7MF	20%	20V
C1016	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1017	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1019	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C1020	1-135-214-21	TANTAL. CHIP	4.7MF	20%	20V
C1021	1-135-214-21	TANTAL. CHIP	4.7MF	20%	20V
C1022	1-113-985-11	TANTAL. CHIP	10MF	20%	20V
C1029	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1031	1-104-915-11	TANTAL. CHIP	2.2MF	20%	20V
C1032	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1033	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1034	1-135-192-21	TANTAL. CHIP	0.47MF	20%	20V
C1035	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C1036	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1037	1-104-915-11	TANTAL. CHIP	2.2MF	20%	20V
C1038	1-135-192-21	TANTAL. CHIP	0.47MF	20%	20V
C1039	1-117-681-11	ELECT CHIP	100MF	20%	16V
C1040	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1041	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V

QA

REF NO.	PART NO.	DESCRIPTION				REMARK
C1042	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V	
C1043	1-124-779-00	ELECT CHIP	10MF	20%	16V	
C1044	1-124-779-00	ELECT CHIP	10MF	20%	16V	
C1045	1-124-779-00	ELECT CHIP	10MF	20%	16V	
C1050	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V	
C1051	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V	
C1102	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1204	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	
C1205	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1207	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1208	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1211	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	
C1212	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	
C1213	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1214	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1215	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	
C1216	1-164-346-11	CERAMIC CHIP	1MF		16V	
C1217	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1218	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1219	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C1220	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1221	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1222	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1223	1-113-577-11	ELECT	47MF	20%	16V	
C1224	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1225	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1226	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1227	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	
C1228	1-126-191-11	ELECT CHIP	0.47MF	20%	50V	
C1229	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1231	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1232	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1233	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1235	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1236	1-163-237-11	CERAMIC CHIP	27PF	5%	50V	
C1237	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1240	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1244	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1246	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1248	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1249	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1250	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1251	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C1252	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1253	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1258	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1259	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1262	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1264	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1265	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1266	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1267	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1268	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1269	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1270	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1271	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1272	1-117-681-11	ELECT CHIP	100MF	20%	16V	
C1273	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1274	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1275	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1276	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C1277	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	
C1278	1-113-985-11	TANTAL. CHIP	10MF	20%	20V	
C1279	1-113-578-11	ELECT	68MF	20%	10V	
C1280	1-113-578-11	ELECT	68MF	20%	10V	
C1288	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1289	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C1290	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V	
C1291	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
		<CONNECTOR>				
CN1001	* 1-785-305-21	CONNECTOR, BOARD TO BOARD 70P				
CN1002	* 1-569-775-21	PIN, CONNECTOR (SMD) 5P				
CN1003	* 1-580-057-11	PIN, CONNECTOR (SMD) 4P				
CN1004	1-566-850-41	CONNECTOR, (S) TERMINAL 4P				
		<DIODE>				
D1001	8-719-158-37	DIODE RD9.1SB2				
D1002	8-719-158-37	DIODE RD9.1SB2				
D1003	8-719-158-37	DIODE RD9.1SB2				
D1004	8-719-158-37	DIODE RD9.1SB2				
D1005	8-719-158-37	DIODE RD9.1SB2				
D1006	8-719-158-37	DIODE RD9.1SB2				
D1007	8-719-158-37	DIODE RD9.1SB2				
D1008	8-719-158-37	DIODE RD9.1SB2				
D1009	8-719-158-37	DIODE RD9.1SB2				
D1010	8-719-036-76	DIODE RD3.3SB2-T1				
D1011	8-719-914-43	DIODE DAN202K				
D1012	8-719-988-61	DIODE 1SS355TE-17				
D1013	8-719-158-15	DIODE RD5.6SB				
D1201	8-719-053-18	DIODE 1SR154-400TE-25				
		<FILTER>				
FL1201	1-239-397-11	FILTER, LOW PASS				
FL1202	1-239-397-11	FILTER, LOW PASS				
FL1203	1-239-397-11	FILTER, LOW PASS				
		<IC>				
IC1001	8-759-082-61	IC TC4W53FU				
IC1002	8-759-082-61	IC TC4W53FU				
IC1003	8-752-083-07	IC CXA1846AN-T4				
IC1004	8-759-701-54	IC NJM2073D				
IC1102	8-752-072-94	IC CXA1875AM-T4				
IC1201	8-759-565-20	IC TDA4665T/V5-118				
IC1202	8-759-490-50	IC TDA9143/S1				
IC1203	8-759-432-78	IC MM1111XFBE				
IC1204	8-759-492-19	IC MM1231XFBE				
IC1205	8-752-390-37	IC CXD2064Q-T6				
IC1208	8-759-572-04	IC TDA9178T/N1.118				
		<JACK>				
J1001	1-695-865-11	JACK, PIN 3P (VIDEO)				
J1002	1-563-935-11	JACK, STEREO HEADPHONE (AUDIO INPUT A)				
J1003	1-563-935-11	JACK, STEREO HEADPHONE (AUDIO OUT)				

REF NO.	PART NO.	DESCRIPTION				REMARK
		<COIL>				
L1001	1-412-363-21	FERRITE	0µH			
L1002	1-412-363-21	FERRITE	0µH			
L1003	1-412-363-21	FERRITE	0µH			
L1004	1-412-363-21	FERRITE	0µH			
L1005	1-412-363-21	FERRITE	0µH			
L1006	1-412-363-21	FERRITE	0µH			
L1007	1-412-363-21	FERRITE	0µH			
L1008	1-412-363-21	FERRITE	0µH			
L1009	1-412-363-21	FERRITE	0µH			
L1010	1-414-752-11	INDUCTOR	2.2µH			
L1011	1-410-377-31	INDUCTOR CHIP	4.7µH			
L1202	1-414-235-22	INDUCTOR CHIP	0µH			
L1204	1-414-235-22	INDUCTOR CHIP	0µH			
L1205	1-412-796-41	INDUCTOR	47µH			
L1206	1-410-377-31	INDUCTOR CHIP	4.7µH			
L1207	1-414-235-22	INDUCTOR CHIP	0µH			
L1208	1-500-451-11	FERRITE	0µH			
L1209	1-412-788-41	INDUCTOR	10µH			
		<TRANSISTOR>				
Q1001	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1002	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1003	1-801-806-11	TRANSISTOR	DTC144EKA-T146			
Q1004	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1005	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1006	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1007	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1008	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1201	1-801-806-11	TRANSISTOR	DTC144EKA-T146			
Q1202	1-801-806-11	TRANSISTOR	DTC144EKA-T146			
Q1204	1-801-806-11	TRANSISTOR	DTC144EKA-T146			
Q1205	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1206	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1207	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1210	8-729-107-31	TRANSISTOR	2SC3545-T43			
Q1213	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1214	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1215	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1217	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1222	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1223	1-801-806-11	TRANSISTOR	DTC144EKA-T146			
Q1224	1-801-806-11	TRANSISTOR	DTC144EKA-T146			
Q1225	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1226	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1227	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1228	8-729-230-49	TRANSISTOR	2SC2712-YG			
Q1229	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1230	8-729-216-22	TRANSISTOR	2SA1162-G			
Q1231	8-729-230-49	TRANSISTOR	2SC2712-YG			
		<RESISTOR>				
R1001	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1002	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R1003	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R1004	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R1006	1-216-624-11	METAL CHIP	75	0.50%	1/10W	
R1008	1-216-295-91	SHORT	0			
R1009	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1010	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1011	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R1012	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1013	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1014	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1015	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1016	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1017	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1018	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R1020	1-216-295-91	SHORT	0			
R1021	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R1024	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R1025	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1026	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1027	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R1028	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1029	1-217-671-11	RES,CHIP	1	5%	1/10W	
R1030	1-217-671-11	RES,CHIP	1	5%	1/10W	
R1031	1-216-113-00	RES,CHIP	470K	5%	1/10W	
R1032	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1033	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R1034	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R1035	1-216-071-00	RES,CHIP	8.2K	5%	1/10W	
R1036	1-216-041-00	RES,CHIP	470	5%	1/10W	
R1037	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R1040	1-216-041-00	RES,CHIP	470	5%	1/10W	
R1041	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1042	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1043	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R1044	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R1045	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1046	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R1047	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	
R1048	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1049	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1050	1-216-017-91	RES,CHIP	47	5%	1/10W	
R1051	1-216-017-91	RES,CHIP	47	5%	1/10W	
R1052	1-216-017-91	RES,CHIP	47	5%	1/10W	
R1053	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R1054	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R1055	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1056	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R1057	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1058	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1059	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1060	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1061	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1062	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1063	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1064	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R1101	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1102	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1103	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1115	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1116	1-216-025-91	RES,CHIP	100	5%	1/10W	
R1117	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1118	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R1119	1-216-025-91	RES,CHIP	100	5%	1/10W	

QA **QB**

REF NO.	PART NO.	DESCRIPTION			REMARK
R1120	1-216-025-91	RES,CHIP	100	5%	1/10W
R1121	1-216-025-91	RES,CHIP	100	5%	1/10W
R1122	1-216-025-91	RES,CHIP	100	5%	1/10W
R1123	1-216-025-91	RES,CHIP	100	5%	1/10W
R1124	1-216-025-91	RES,CHIP	100	5%	1/10W
R1125	1-216-025-91	RES,CHIP	100	5%	1/10W
R1126	1-216-025-91	RES,CHIP	100	5%	1/10W
R1127	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1201	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1202	1-216-025-91	RES,CHIP	100	5%	1/10W
R1203	1-216-025-91	RES,CHIP	100	5%	1/10W
R1204	1-216-085-00	RES,CHIP	33K	5%	1/10W
R1205	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1206	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1207	1-216-295-91	SHORT	0		
R1208	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1209	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R1210	1-216-639-11	METAL CHIP	330	0.50%	1/10W
R1211	1-216-295-91	SHORT	0		
R1212	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1213	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1215	1-216-025-91	RES,CHIP	100	5%	1/10W
R1216	1-216-095-00	RES,CHIP	82K	5%	1/10W
R1217	1-216-077-00	RES,CHIP	15K	5%	1/10W
R1218	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1219	1-216-633-11	METAL CHIP	180	0.50%	1/10W
R1220	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1222	1-216-643-11	METAL CHIP	470	0.50%	1/10W
R1223	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1224	1-216-025-91	RES,CHIP	100	5%	1/10W
R1225	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1229	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1235	1-216-025-91	RES,CHIP	100	5%	1/10W
R1237	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1239	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1240	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1241	1-216-041-00	RES,CHIP	470	5%	1/10W
R1242	1-216-041-00	RES,CHIP	470	5%	1/10W
R1245	1-216-041-00	RES,CHIP	470	5%	1/10W
R1246	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1247	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1248	1-216-033-00	RES,CHIP	220	5%	1/10W
R1249	1-216-633-11	METAL CHIP	180	0.50%	1/10W
R1250	1-216-041-00	RES,CHIP	470	5%	1/10W
R1251	1-216-025-91	RES,CHIP	100	5%	1/10W
R1252	1-216-025-91	RES,CHIP	100	5%	1/10W
R1253	1-216-025-91	RES,CHIP	100	5%	1/10W
R1254	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1256	1-216-295-91	SHORT	0		
R1260	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1261	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1262	1-216-035-00	RES,CHIP	270	5%	1/10W
R1267	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1268	1-216-041-00	RES,CHIP	470	5%	1/10W
R1269	1-216-041-00	RES,CHIP	470	5%	1/10W
R1275	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1277	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1278	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1279	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1280	1-216-295-91	SHORT	0		
R1283	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R1284	1-216-295-91	SHORT	0		
R1285	1-216-025-91	RES,CHIP	100	5%	1/10W
R1286	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1287	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1290	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R1291	1-216-043-91	RES,CHIP	560	5%	1/10W
R1292	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1293	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1294	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1295	1-216-043-91	RES,CHIP	560	5%	1/10W
R1296	1-216-043-91	RES,CHIP	560	5%	1/10W
R1297	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1298	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R1299	1-216-043-91	RES,CHIP	560	5%	1/10W
R1300	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1301	1-216-043-91	RES,CHIP	560	5%	1/10W
R1302	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R1303	1-216-025-91	RES,CHIP	100	5%	1/10W
R1305	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1306	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R1307	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1308	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1309	1-216-295-91	SHORT	0		
R1310	1-216-295-91	SHORT	0		
R1311	1-216-295-91	SHORT	0		
R1312	1-216-025-91	RES,CHIP	100	5%	1/10W
R1316	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1317	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1318	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1319	1-216-025-91	RES,CHIP	100	5%	1/10W
R1320	1-216-643-11	METAL CHIP	470	0.50%	1/10W
		<SWITCH>			
S1001	1-570-245-11	SWITCH, MICRO (FILTER COVER)			
		<CRYSTAL>			
X1201	1-760-190-11	VIBRATOR, CRYSTAL (3.579545MHz)			
X1202	1-579-973-11	VIBRATOR, CRYSTAL (3.575611MHz)			
X1203	1-760-191-11	VIBRATOR, CRYSTAL (4.433618MHz)			
**********					
	* A-1275-171-A	QB COMPL			
		**********			
		<CAPACITOR>			
C2201	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2202	1-126-204-11	ELECT CHIP	47MF	20%	16V
C2203	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2204	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C2301	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2302	1-126-204-11	ELECT CHIP	47MF	20%	16V
C2303	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2304	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2701	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2702	1-126-204-11	ELECT CHIP	47MF	20%	16V

REF NO.	PART NO.	DESCRIPTION			REMARK
C2703	1-126-205-11	ELECT CHIP	47MF	20%	6.3V
C2704	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2801	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2802	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2803	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2804	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2805	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2807	1-117-681-11	ELECT CHIP	100MF	20%	16V
C2808	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2809	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2810	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2811	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2901	1-115-566-11	CERAMIC CHIP	4.7MF	10%	10V
C2902	1-115-566-11	CERAMIC CHIP	4.7MF	10%	10V
C2903	1-119-667-11	CERAMIC CHIP	22MF		10V
C2904	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2905	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2906	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2911	1-119-667-11	CERAMIC CHIP	22MF		10V
C2912	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2913	1-109-982-11	CERAMIC CHIP	1MF	10%	10V
C2914	1-115-467-11	CERAMIC CHIP	0.22MF	10%	10V
C2915	1-115-467-11	CERAMIC CHIP	0.22MF	10%	10V
C2916	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2917	1-115-467-11	CERAMIC CHIP	0.22MF	10%	10V
C2918	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2919	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2920	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2921	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2922	1-119-667-11	CERAMIC CHIP	22MF		10V
C2923	1-164-173-11	CERAMIC CHIP	0.0039MF	10%	50V
C2924	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2925	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2926	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2927	1-104-607-11	ELECT CHIP	47MF	20%	16V
C2928	1-128-451-11	ELECT CHIP	22MF	20%	16V
C2929	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2930	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2931	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2932	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2933	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2934	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2935	1-126-204-11	ELECT CHIP	47MF	20%	16V
C2936	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2937	1-107-682-11	CERAMIC CHIP	1MF	10%	16V
C2938	1-124-779-00	ELECT CHIP	10MF	20%	16V
C2939	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2940	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2941	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2942	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2943	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2944	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2945	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2946	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2947	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2948	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C2949	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2950	1-162-967-11	CERAMIC CHIP	0.0033MF	10%	50V
C2951	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C2952	1-128-451-11	ELECT CHIP	22MF	20%	16V
C2953	1-128-451-11	ELECT CHIP	22MF	20%	16V
C2954	1-115-156-11	CERAMIC CHIP	1MF		10V
C2955	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C2956	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C2957	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3101	1-115-156-11	CERAMIC CHIP	1MF		10V
C3102	1-115-156-11	CERAMIC CHIP	1MF		10V
C3103	1-115-156-11	CERAMIC CHIP	1MF		10V
C3104	1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3105	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3106	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3107	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3108	1-115-156-11	CERAMIC CHIP	1MF		10V
C3109	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3110	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3111	1-110-501-11	CERAMIC CHIP	0.33MF	10%	16V
C3112	1-164-730-11	CERAMIC CHIP	0.0012MF	10%	50V
C3113	1-117-720-11	CERAMIC CHIP	4.7MF		10V
C3114	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C3115	1-115-156-11	CERAMIC CHIP	1MF		10V
C3116	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3117	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3118	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3119	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3120	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3121	1-115-156-11	CERAMIC CHIP	1MF		10V
C3122	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3123	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3124	1-115-156-11	CERAMIC CHIP	1MF		10V
C3125	1-115-156-11	CERAMIC CHIP	1MF		10V
C3126	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3127	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3128	1-115-156-11	CERAMIC CHIP	1MF		10V
C3129	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3130	1-115-156-11	CERAMIC CHIP	1MF		10V
C3131	1-115-156-11	CERAMIC CHIP	1MF		10V
C3132	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C3133	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3134	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3135	1-115-156-11	CERAMIC CHIP	1MF		10V
C3136	1-124-779-00	ELECT CHIP	10MF	20%	16V
C3412	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3413	1-107-561-11	FILM CHIP	0.01MF	5%	50V
C3414	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3415	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C3512	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3513	1-107-561-11	FILM CHIP	0.01MF	5%	50V
C3514	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3515	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
C3612	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3613	1-107-561-11	FILM CHIP	0.01MF	5%	50V
C3614	1-164-156-11	CERAMIC CHIP	0.1MF		25V
C3615	1-107-826-91	CERAMIC CHIP	0.1MF	10%	16V
		<CONNECTOR>			
CN2801	1-778-830-21	CONNECTOR (BUS)			
CN2901	1-784-828-11	CONNECTOR, D SUB			

QB

REF NO.	PART NO.	DESCRIPTION	REMARK
CN2902	* 1-785-306-21	CONNECTOR, BOARD TO BOARD70P	
CN2903	* 1-785-305-21	CONNECTOR, BOARD TO BOARD 70P	
CN2904	* 1-785-305-21	CONNECTOR, BOARD TO BOARD 70P	
		<DIODE>	
D2201	8-719-800-76	DIODE 1SS226	
D2301	8-719-800-76	DIODE 1SS226	
D2701	8-719-800-76	DIODE 1SS226	
D2801	8-719-158-37	DIODE RD9.1SB2	
D2802	8-719-158-15	DIODE RD5.6SB	
D2811	8-719-158-15	DIODE RD5.6SB	
D2812	8-719-158-15	DIODE RD5.6SB	
D2813	8-719-988-61	DIODE 1SS355TE-17	
D2814	8-719-988-61	DIODE 1SS355TE-17	
D2815	8-719-988-61	DIODE 1SS355TE-17	
D2816	8-719-988-61	DIODE 1SS355TE-17	
D2817	8-719-158-15	DIODE RD5.6SB	
D2818	8-719-058-24	DIODE RB501V-40TE-17	
D2821	8-719-988-61	DIODE 1SS355TE-17	
D2822	8-719-073-11	DIODE BZA456A	
D2823	8-719-073-11	DIODE BZA456A	
D2901	8-719-800-76	DIODE 1SS226	
D2902	8-719-800-76	DIODE 1SS226	
D2903	8-719-158-15	DIODE RD5.6SB	
D2904	8-719-158-15	DIODE RD5.6SB	
D2905	8-719-158-15	DIODE RD5.6SB	
D2906	8-719-158-15	DIODE RD5.6SB	
D2907	8-719-053-18	DIODE 1SR154-400TE-25	
		<FERRITE BEAD>	
FB2901	1-414-235-22	INDUCTOR CHIP 0µH	
FB3101	1-414-235-22	INDUCTOR CHIP 0µH	
FB3102	1-414-235-22	INDUCTOR CHIP 0µH	
FB3103	1-414-235-22	INDUCTOR CHIP 0µH	
FB3104	1-414-235-22	INDUCTOR CHIP 0µH	
		<IC>	
IC2801	8-759-553-48	IC RCV2	
IC2802	8-759-523-97	IC TC74VHC123AFT (EL)	
IC2901	8-759-522-86	IC M52755FP-TP	
IC2902	8-752-073-52	IC CXA2016S	
IC2903	8-759-335-28	IC TA78M09F(TE16L)	
IC2904	8-759-472-37	IC 74VHC240MTCX	
IC2905	8-752-070-54	IC CXA1839Q-T6	
IC2906	8-759-472-35	IC 74VHC221AMTCX	
IC2907	8-752-072-94	IC CXA1875AM-T4	
IC2908	8-759-388-31	IC PQ20VZ1U	
IC2909	8-759-472-00	IC 74VHC14MTCX	
IC3101	8-752-083-73	IC CXA3106AQ	
IC3102	8-719-985-01	DIODE LM385M-1.2	
IC3103	8-759-473-74	IC SN74CBTD3306PWR	
IC3104	8-759-475-35	IC TC74LCX04FT(EL)	
IC3105	8-759-572-03	IC AD9483KS-140	
IC3106	8-759-196-96	IC TC7SH08FU-TE85R	
IC3403	8-759-080-34	IC TA75W01FU	
IC3404	8-759-082-60	IC TC7S66FU	
IC3405	8-759-449-58	IC LM7131BCM5X	
IC3503	8-759-080-34	IC TA75W01FU	
IC3504	8-759-082-60	IC TC7S66FU	
IC3505	8-759-449-58	IC LM7131BCM5X	
IC3603	8-759-080-34	IC TA75W01FU	
IC3604	8-759-082-60	IC TC7S66FU	
IC3605	8-759-449-58	IC LM7131BCM5X	
		<COIL>	
L2903	1-414-235-22	INDUCTOR CHIP 0µH	
L2904	1-414-235-22	INDUCTOR CHIP 0µH	
L2905	1-414-752-11	INDUCTOR 2.2µH	
L2906	1-414-235-22	INDUCTOR CHIP 0µH	
L2907	1-500-451-11	FERRITE 0µH	
L2908	1-414-235-22	INDUCTOR CHIP 0µH	
L2909	1-500-451-11	FERRITE 0µH	
		<TRANSISTOR>	
Q2201	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q2301	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q2701	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q2801	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q2802	8-729-907-00	TRANSISTOR DTC114EU	
Q2803	8-729-907-00	TRANSISTOR DTC114EU	
Q3401	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q3501	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
Q3601	8-729-140-63	TRANSISTOR 2SA1611-M5M6	
		<RESISTOR>	
R2201	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2202	1-216-805-11	RES,CHIP 47 5% 1/16W	
R2203	1-216-809-11	RES,CHIP 100 5% 1/16W	
R2204	1-216-821-11	RES,CHIP 1K 5% 1/16W	
R2205	1-218-692-11	METAL CHIP 1K 0.50% 1/16W	
R2206	1-218-692-11	METAL CHIP 1K 0.50% 1/16W	
R2207	1-216-835-11	RES,CHIP 15K 5% 1/16W	
R2208	1-216-839-11	RES,CHIP 33K 5% 1/16W	
R2301	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2302	1-216-805-11	RES,CHIP 47 5% 1/16W	
R2303	1-216-809-11	RES,CHIP 100 5% 1/16W	
R2304	1-216-821-11	RES,CHIP 1K 5% 1/16W	
R2305	1-218-672-11	METAL CHIP 150 0.50% 1/16W	
R2306	1-218-696-11	METAL CHIP 1.5K 0.50% 1/16W	
R2307	1-216-835-11	RES,CHIP 15K 5% 1/16W	
R2308	1-216-839-11	RES,CHIP 33K 5% 1/16W	
R2701	1-216-625-11	METAL CHIP 82 0.50% 1/10W	
R2702	1-216-805-11	RES,CHIP 47 5% 1/16W	
R2703	1-216-809-11	RES,CHIP 100 5% 1/16W	
R2704	1-216-821-11	RES,CHIP 1K 5% 1/16W	
R2705	1-218-688-11	METAL CHIP 680 0.50% 1/16W	
R2706	1-218-696-11	METAL CHIP 1.5K 0.50% 1/16W	
R2707	1-216-835-11	RES,CHIP 15K 5% 1/16W	
R2708	1-216-839-11	RES,CHIP 33K 5% 1/16W	
R2801	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R2802	1-216-809-11	RES,CHIP 100 5% 1/16W	
R2803	1-216-838-11	RES,CHIP 27K 5% 1/16W	
R2804	1-216-838-11	RES,CHIP 27K 5% 1/16W	
R2805	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R2806	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R2807	1-216-829-11	RES,CHIP 4.7K 5% 1/16W	
R2808	1-216-864-11	SHORT 0	

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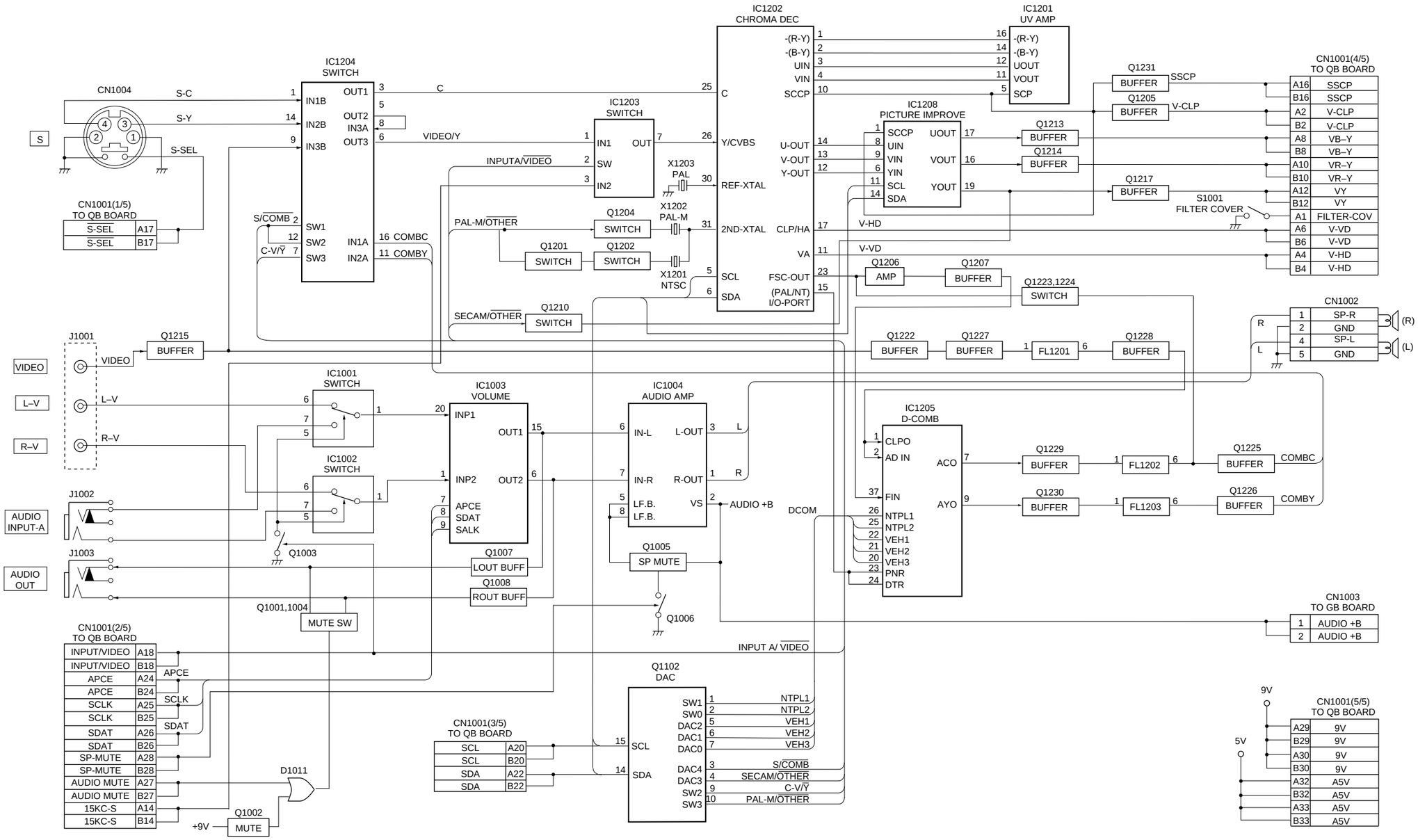
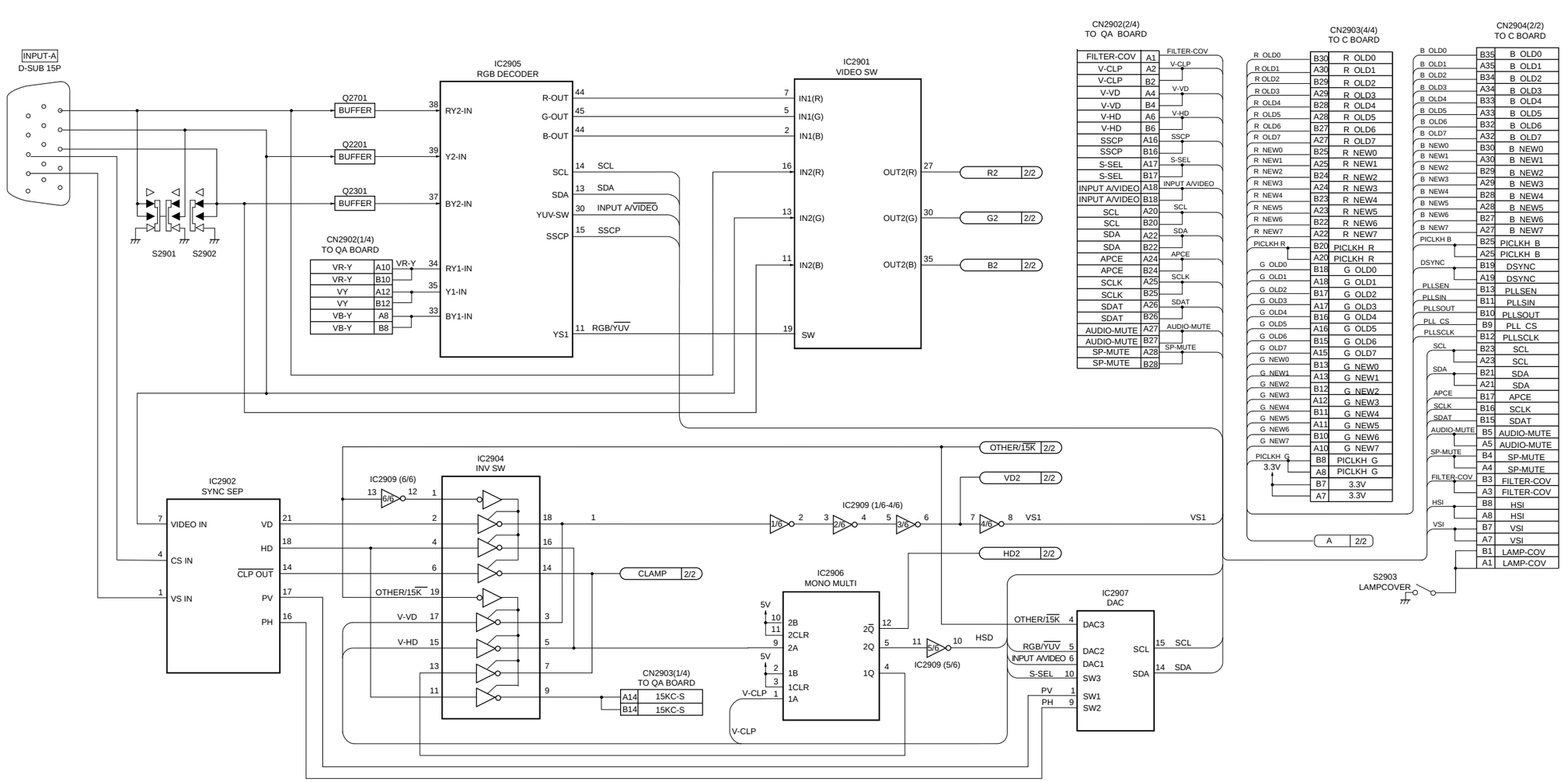
REF NO.	PART NO.	DESCRIPTION			REMARK
R2809	1-216-809-11	RES,CHIP	100	5%	1/16W
R2810	1-216-809-11	RES,CHIP	100	5%	1/16W
R2811	1-216-809-11	RES,CHIP	100	5%	1/16W
R2812	1-216-809-11	RES,CHIP	100	5%	1/16W
R2813	1-216-809-11	RES,CHIP	100	5%	1/16W
R2814	1-216-809-11	RES,CHIP	100	5%	1/16W
R2815	1-216-864-11	SHORT	0		
R2816	1-216-805-11	RES,CHIP	47	5%	1/16W
R2817	1-216-805-11	RES,CHIP	47	5%	1/16W
R2818	1-216-857-11	RES,CHIP	1M	5%	1/16W
R2819	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R2820	1-216-841-11	RES,CHIP	47K	5%	1/16W
R2821	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R2822	1-216-841-11	RES,CHIP	47K	5%	1/16W
R2823	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R2825	1-216-837-11	RES,CHIP	22K	5%	1/16W
R2826	1-216-837-11	RES,CHIP	22K	5%	1/16W
R2827	1-216-837-11	RES,CHIP	22K	5%	1/16W
R2828	1-216-837-11	RES,CHIP	22K	5%	1/16W
R2829	1-216-837-11	RES,CHIP	22K	5%	1/16W
R2830	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R2831	1-216-841-11	RES,CHIP	47K	5%	1/16W
R2832	1-216-841-11	RES,CHIP	47K	5%	1/16W
R2837	1-216-821-11	RES,CHIP	1K	5%	1/16W
R2901	1-216-864-11	SHORT	0		
R2902	1-216-864-11	SHORT	0		
R2903	1-216-816-11	RES,CHIP	390	5%	1/16W
R2904	1-216-816-11	RES,CHIP	390	5%	1/16W
R2905	1-216-864-11	SHORT	0		
R2907	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R2908	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R2909	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R2910	1-216-864-11	SHORT	0		
R2911	1-216-864-11	SHORT	0		
R2912	1-216-864-11	SHORT	0		
R2916	1-216-809-11	RES,CHIP	100	5%	1/16W
R2917	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2918	1-216-809-11	RES,CHIP	100	5%	1/16W
R2919	1-216-839-11	RES,CHIP	33K	5%	1/16W
R2920	1-218-726-11	METAL CHIP	27K	0.50%	1/16W
R2921	1-218-718-11	METAL CHIP	12K	0.50%	1/16W
R2922	1-216-825-11	RES,CHIP	2.2K	5%	1/16W
R2923	1-216-827-11	RES,CHIP	3.3K	5%	1/16W
R2924	1-218-672-11	METAL CHIP	150	0.50%	1/16W
R2925	1-218-670-11	METAL CHIP	120	0.50%	1/16W
R2926	1-216-821-11	RES,CHIP	1K	5%	1/16W
R2927	1-216-809-11	RES,CHIP	100	5%	1/16W
R2929	1-216-805-11	RES,CHIP	47	5%	1/16W
R2930	1-216-838-11	RES,CHIP	27K	5%	1/16W
R2931	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2932	1-216-809-11	RES,CHIP	100	5%	1/16W
R2933	1-216-864-11	SHORT	0		
R2934	1-216-864-11	SHORT	0		
R2935	1-216-821-11	RES,CHIP	1K	5%	1/16W
R2936	1-216-809-11	RES,CHIP	100	5%	1/16W
R2937	1-216-809-11	RES,CHIP	100	5%	1/16W
R2938	1-216-809-11	RES,CHIP	100	5%	1/16W
R2939	1-216-809-11	RES,CHIP	100	5%	1/16W
R2940	1-216-821-11	RES,CHIP	1K	5%	1/16W
R2941	1-216-809-11	RES,CHIP	100	5%	1/16W
R2943	1-218-716-11	METAL CHIP	10K	0.50%	1/16W
R2944	1-216-809-11	RES,CHIP	100	5%	1/16W
R2945	1-218-696-11	METAL CHIP	1.5K	0.50%	1/16W
R2946	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2947	1-216-809-11	RES,CHIP	100	5%	1/16W
R2948	1-216-809-11	RES,CHIP	100	5%	1/16W
R2949	1-216-809-11	RES,CHIP	100	5%	1/16W
R2950	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2951	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2952	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2953	1-216-813-11	RES,CHIP	220	5%	1/16W
R2954	1-216-833-11	RES,CHIP	10K	5%	1/16W
R2959	1-216-797-11	RES,CHIP	10	5%	1/16W
R2998	1-216-809-11	RES,CHIP	100	5%	1/16W
R2999	1-216-809-11	RES,CHIP	100	5%	1/16W
R3101	1-218-697-11	METAL CHIP	1.6K	0.50%	1/16W
R3102	1-249-403-11	RES,CHIP	68	5%	1/4W
R3103	1-218-704-11	METAL CHIP	3.3K	0.50%	1/16W
R3104	1-216-815-11	RES,CHIP	330	5%	1/16W
R3105	1-216-864-11	SHORT	0		
R3106	1-216-815-11	RES,CHIP	330	5%	1/16W
R3107	1-216-864-11	SHORT	0		
R3108	1-216-864-11	SHORT	0		
R3111	1-216-864-11	SHORT	0		
R3115	1-216-809-11	RES,CHIP	100	5%	1/16W
R3116	1-216-809-11	RES,CHIP	100	5%	1/16W
R3117	1-216-845-11	RES,CHIP	100K	5%	1/16W
R3118	1-216-801-11	RES,CHIP	22	5%	1/16W
R3119	1-249-403-11	RES,CHIP	68	5%	1/4W
R3120	1-216-821-11	RES,CHIP	1K	5%	1/16W
R3121	1-216-803-11	RES,CHIP	33	5%	1/16W
R3122	1-216-801-11	RES,CHIP	22	5%	1/16W
R3123	1-216-801-11	RES,CHIP	22	5%	1/16W
R3215	1-216-829-11	RES,CHIP	4.7K	5%	1/16W
R3402	1-218-702-11	METAL CHIP	2.7K	0.50%	1/16W
R3403	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3404	1-216-809-11	RES,CHIP	100	5%	1/16W
R3405	1-216-809-11	RES,CHIP	100	5%	1/16W
R3406	1-216-821-11	RES,CHIP	1K	5%	1/16W
R3407	1-216-821-11	RES,CHIP	1K	5%	1/16W
R3502	1-218-702-11	METAL CHIP	2.7K	0.50%	1/16W
R3503	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3504	1-216-809-11	RES,CHIP	100	5%	1/16W
R3505	1-216-809-11	RES,CHIP	100	5%	1/16W
R3506	1-216-821-11	RES,CHIP	1K	5%	1/16W
R3507	1-216-821-11	RES,CHIP	1K	5%	1/16W
R3602	1-218-702-11	METAL CHIP	2.7K	0.50%	1/16W
R3603	1-218-692-11	METAL CHIP	1K	0.50%	1/16W
R3604	1-216-809-11	RES,CHIP	100	5%	1/16W
R3605	1-216-809-11	RES,CHIP	100	5%	1/16W
R3606	1-216-821-11	RES,CHIP	1K	5%	1/16W
R3607	1-216-821-11	RES,CHIP	1K	5%	1/16W
		<NETWORK>			
RB3401	1-233-576-11	RES, CHIP NETWORK 100			
RB3402	1-233-576-11	RES, CHIP NETWORK 100			
RB3403	1-233-576-11	RES, CHIP NETWORK 100			

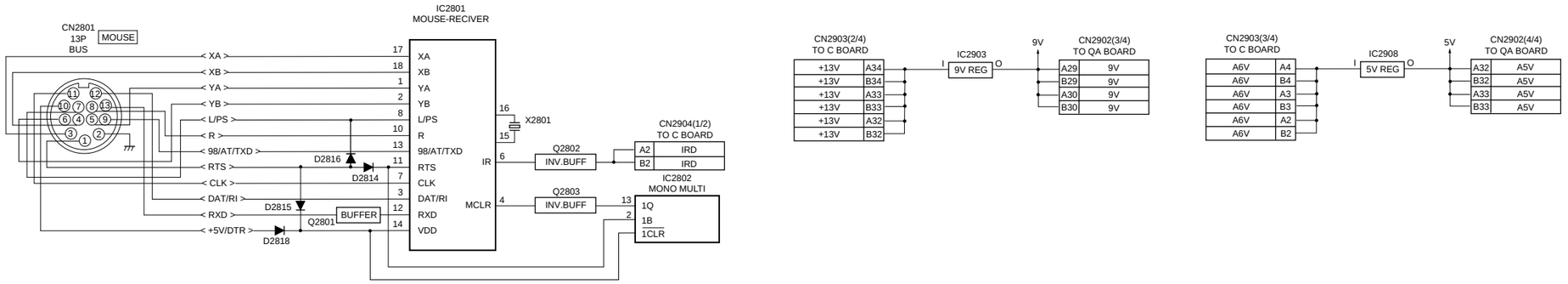
REF NO.	PART NO.	DESCRIPTION	REMARK
RB3404	1-233-576-11	RES, CHIP NETWORK 100	
RB3501	1-233-576-11	RES, CHIP NETWORK 100	
RB3502	1-233-576-11	RES, CHIP NETWORK 100	
RB3503	1-233-576-11	RES, CHIP NETWORK 100	
RB3504	1-233-576-11	RES, CHIP NETWORK 100	
RB3601	1-239-409-11	RES, CHIP NETWORK 47 (3216)	
RB3602	1-239-409-11	RES, CHIP NETWORK 47 (3216)	
RB3603	1-239-409-11	RES, CHIP NETWORK 47 (3216)	
RB3604	1-239-409-11	RES, CHIP NETWORK 47 (3216)	
		<SWITCH>	
S2901	1-571-674-11	SWITCH, SLIDE (75Ω SW)	
S2902	1-571-674-11	SWITCH, SLIDE (75Ω SW)	
S2903	1-762-984-11	SWITCH, PUSH (LAMP COVER)	
		<THERMISTOR>	
TH2901	1-809-020-11	THERMISTOR	
		<CRYSTAL>	
X2801	1-578-689-21	VIBRATOR (8MHz)	
**********			
		MISCELLANEOUS	
		**********	
	1-504-688-11	SPEAKER (3.6cm)	
	1-763-101-21	FAN, DC	
	1-763-172-11	FAN, DC	
	1-763-173-11	FAN, DC	
	1-763-279-11	FAN, DC	
⚠	1-785-843-11	INLET, AC3P (WITH NOISE FILTER) (100V – 240V)	
**********			
		ACCESSORY	
		**********	
⚠	1-534-827-14	CORD, POWER (XC50U) (7A/125V)	
⚠	1-777-649-11	CORD, POWER (XC50E) (10A/250V)	
⚠	1-782-929-11	CORD, POWER SUPPLY (BS 3P) (XC50M) (10A/250V)	
	3-865-593-11	OPERATING INSTRUCTIONS (XC50U/E/M) (ENGLISH, FRENCH, SPANISH)	
	3-865-593-21	OPERATING INSTRUCTIONS (XC50E) (GERMAN, ITALIAN)	
	3-865-593-31	OPERATING INSTRUCTIONS (XC50M) (CHINESE)	
	4-066-191-02	FILTER	
	4-068-675-11	QUICK REFERENCE CARD (XC50U/E/M) (ENGLISH)	
	4-068-675-21	QUICK REFERENCE CARD (XC50U/E/M) (FRENCH)	
	4-068-675-31	QUICK REFERENCE CARD (XC50U/E/M) (SPANISH)	
	4-068-675-41	QUICK REFERENCE CARD (XC50E) (GERMAN)	
	4-068-675-51	QUICK REFERENCE CARD (XC50E) (ITALIAN)	
	4-068-675-61	QUICK REFERENCE CARD (XC50M) (CHINESE)	
	1-475-735-51	REMOTE COMMANDER (RM-PJM600)	
	9-880-535-01	BATTERY COVER (For RM-PJM600)	
	1-774-626-11	ADAPTOR, CONVERSION	
	1-575-334-11	CORD, CONNECTION	
	1-777-743-11	CABLE ASSY (15PDSUBX2CONNECTOR)	

SECTION 7
BLOCK DIAGRAMS

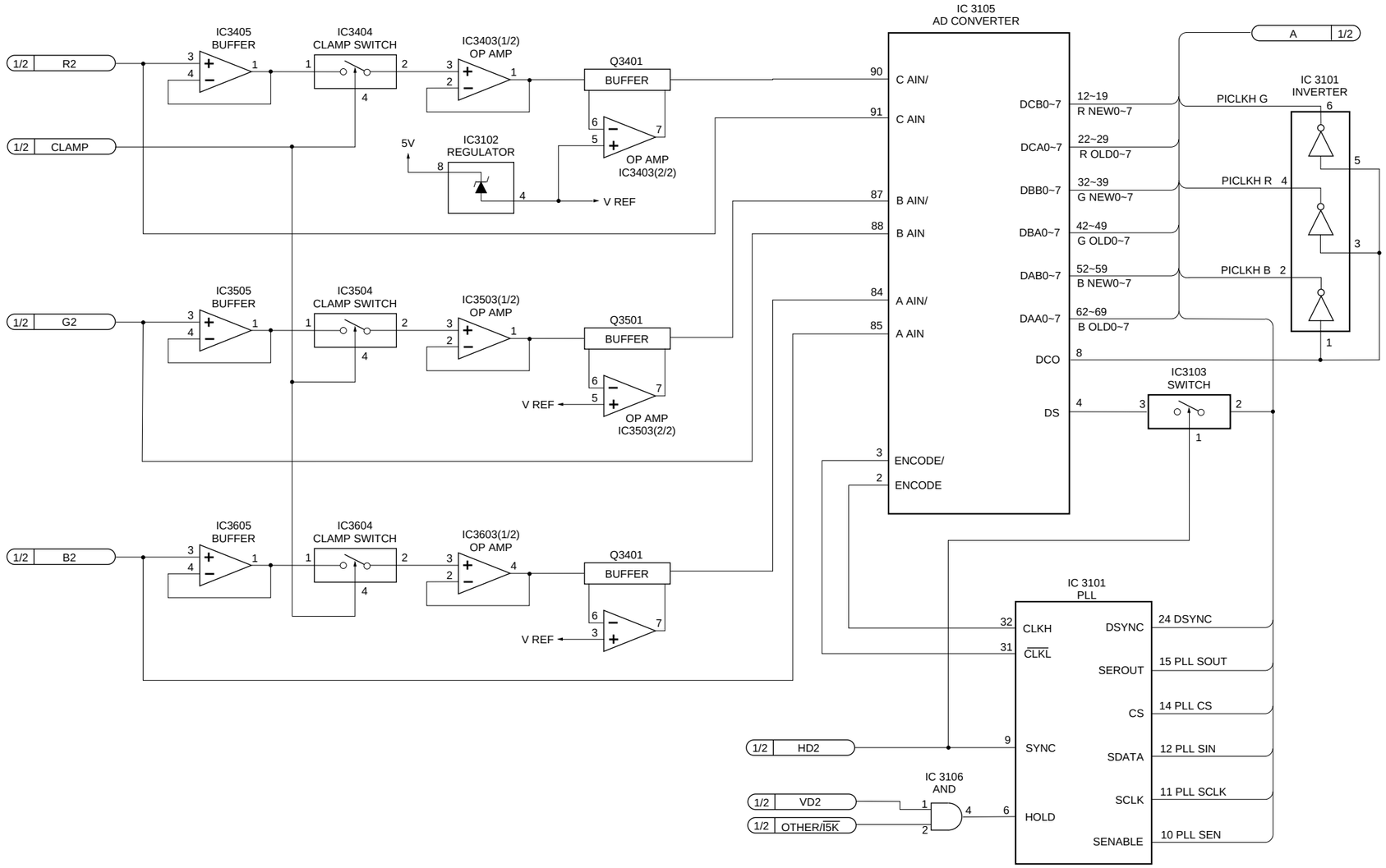


QA BLOCK

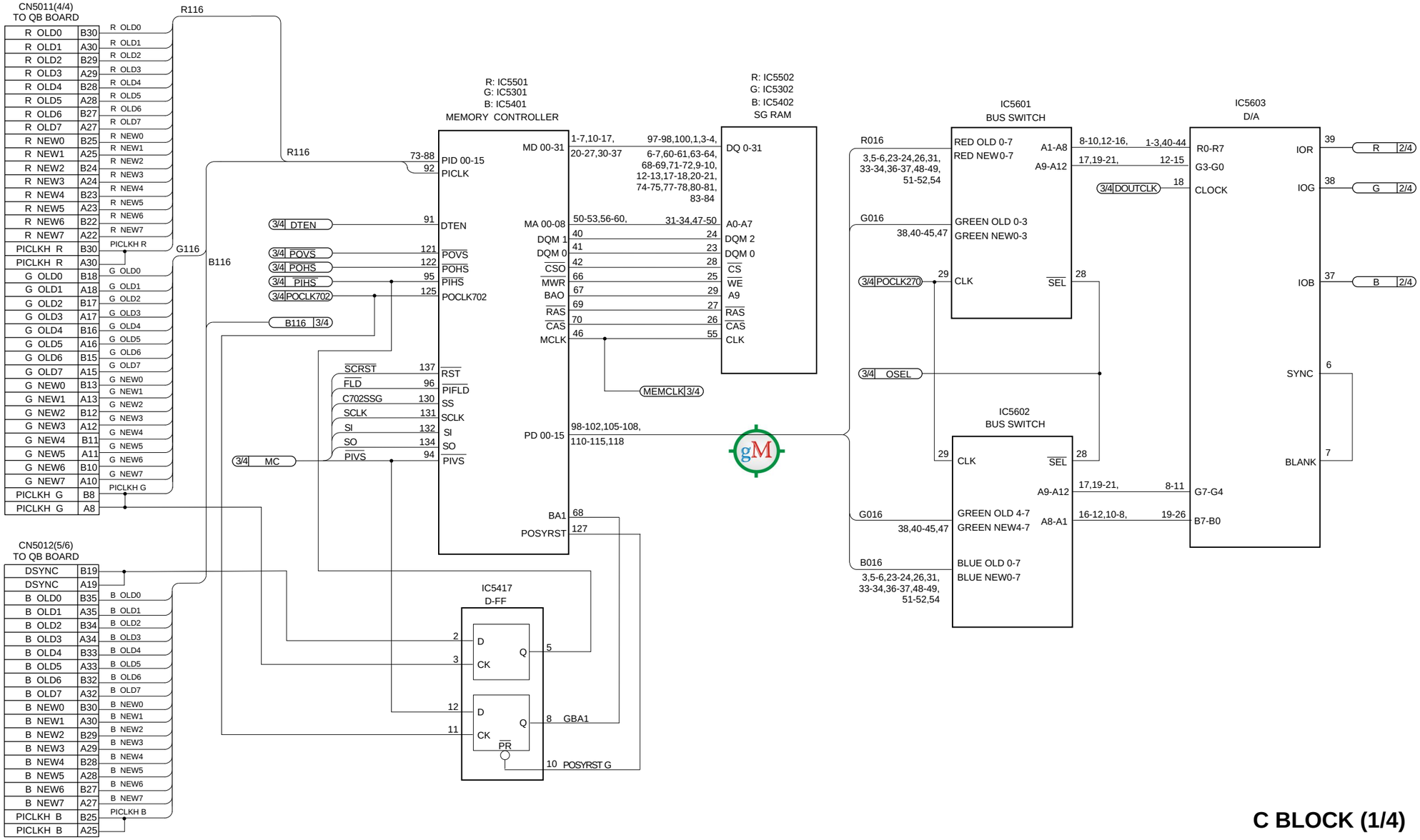

INPUT-A
D-SUB 15P
S2901
S2902
Q2701
Q2201
Q2301
BUFFER
IC2905
RGB DECODER
RY2-IN
Y2-IN
BY2-IN
RY1-IN
Y1-IN
BY1-IN
R-OUT
G-OUT
B-OUT
SCL
SDA
YUV-SW
SSCP
YS1
RGB/YUV
INPUT A/VIDEO
CN2902(1/4)
TO QA BOARD
VR-Y
VR-Y
VY
VY
VB-Y
VB-Y
IC2901
VIDEO SW
IN1(R)
IN1(G)
IN1(B)
IN2(R)
IN2(G)
IN2(B)
SW
OUT2(R)
OUT2(G)
OUT2(B)
R2
G2
B2
2/2
CN2902(2/4)
TO QA BOARD
FILTER-COV
V-CLP
V-CLP
V-VD
V-VD
V-HD
V-HD
SSCP
SSCP
S-SEL
S-SEL
INPUT A/VIDEO
INPUT A/VIDEO
SCL
SCL
SDA
SDA
APCE
APCE
SCLK
SCLK
SDAT
SDAT
AUDIO-MUTE
AUDIO-MUTE
SP-MUTE
SP-MUTE
CN2903(4/4)
TO C BOARD
R_OLD0
R_OLD1
R_OLD2
R_OLD3
R_OLD4
R_OLD5
R_OLD6
R_OLD7
R_NEW0
R_NEW1
R_NEW2
R_NEW3
R_NEW4
R_NEW5
R_NEW6
R_NEW7
PICLKH R
G_OLD0
G_OLD1
G_OLD2
G_OLD3
G_OLD4
G_OLD5
G_OLD6
G_OLD7
G_NEW0
G_NEW1
G_NEW2
G_NEW3
G_NEW4
G_NEW5
G_NEW6
G_NEW7
PICLKH G
3.3V
A
2/2
CN2904(2/2)
TO C BOARD
B_OLD0
B_OLD1
B_OLD2
B_OLD3
B_OLD4
B_OLD5
B_OLD6
B_OLD7
B_NEW0
B_NEW1
B_NEW2
B_NEW3
B_NEW4
B_NEW5
B_NEW6
B_NEW7
PICLKH B
DSYNC
PLLSEN
PLLSIN
PLLSOUT
PLL_CS
PLLSCLK
SCL
SDA
APCE
SCLK
SDAT
AUDIO-MUTE
SP-MUTE
FILTER-COV
HSI
VSI
LAMP-COV
S2903
LAMPCOVER
IC2902
SYNC SEP
VIDEO IN
CS IN
VS IN
VD
HD
CLP OUT
PV
PH
IC2904
INV SW
IC2909 (6/6)
OTHER/15K
V-VD
V-HD
CLAMP
IC2909 (1/6-4/6)
VD2
HD2
VS1
IC2909 (5/6)
IC2906
MONO MULTI
2B
2CLR
2A
1B
1CLR
1A
2Q
2Q
1Q
HSD
V-CLP
IC2907
DAC
DAC3
DAC2
DAC1
SW3
SW1
SW2
SCL
SDA
CN2903(1/4)
TO QA BOARD
15KC-S
15KC-S


CN2801
13P
BUS
MOUSE
XA
XB
YA
YB
L/PS
R
98/AT/TXD
RTS
CLK
DAT/RI
RXD
+5V/DTR
D2816
D2814
D2815
D2818
Q2801
BUFFER
IC2801
MOUSE-RECIVER
X2801
Q2802
Q2803
INV.BUFF
IR
MCLR
CN2904(1/2)
TO C BOARD
IRD
IRD
IC2802
MONO MULTI
1Q
1B
1CLR
CN2903(2/4)
TO C BOARD
+13V
IC2903
9V REG
9V
CN2902(3/4)
TO QA BOARD
CN2903(3/4)
TO C BOARD
A6V
IC2908
5V REG
5V
CN2902(4/4)
TO QA BOARD
A5V

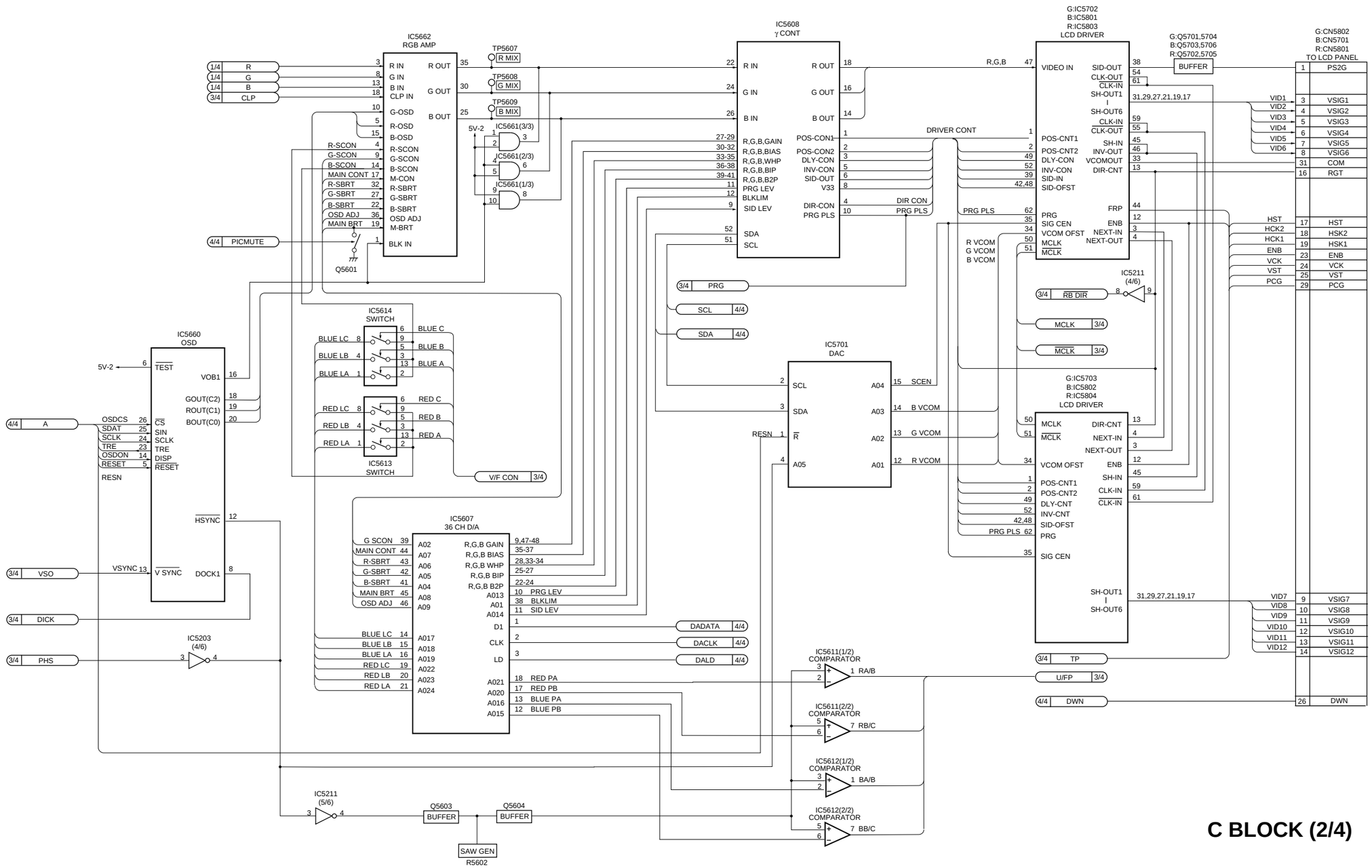
QB BLOCK (1/2)


IC 3105
AD CONVERTER
1/2 R2
IC3405
BUFFER
IC3404
CLAMP SWITCH
IC3403(1/2)
OP AMP
Q3401
BUFFER
1/2 CLAMP
5V
IC3102
REGULATOR
OP AMP
IC3403(2/2)
V REF
1/2 G2
IC3505
BUFFER
IC3504
CLAMP SWITCH
IC3503(1/2)
OP AMP
Q3501
BUFFER
V REF
OP AMP
IC3503(2/2)
1/2 B2
IC3605
BUFFER
IC3604
CLAMP SWITCH
IC3603(1/2)
OP AMP
Q3401
BUFFER
V REF
90 C AIN/
91 C AIN
87 B AIN/
88 B AIN
84 A AIN/
85 A AIN
3 ENCODE/
2 ENCODE
DCB0~7
DCA0~7
DBB0~7
DBA0~7
DAB0~7
DAA0~7
DCO
DS
12~19 R NEW0~7
22~29 R OLD0~7
32~39 G NEW0~7
42~49 G OLD0~7
52~59 B NEW0~7
62~69 B OLD0~7
A 1/2
IC 3101
INVERTER
PICLKH G
PICLKH R
PICLKH B
IC3103
SWITCH
IC 3101
PLL
CLKH
CLKL
SYNC
HOLD
DSYNC
SEROUT
CS
SDATA
SCLK
SENABLE
24 DSYNC
15 PLL SOUT
14 PLL CS
12 PLL SIN
11 PLL SCLK
10 PLL SEN
1/2 HD2
IC 3106
AND
1/2 VD2
1/2 OTHER/I5K

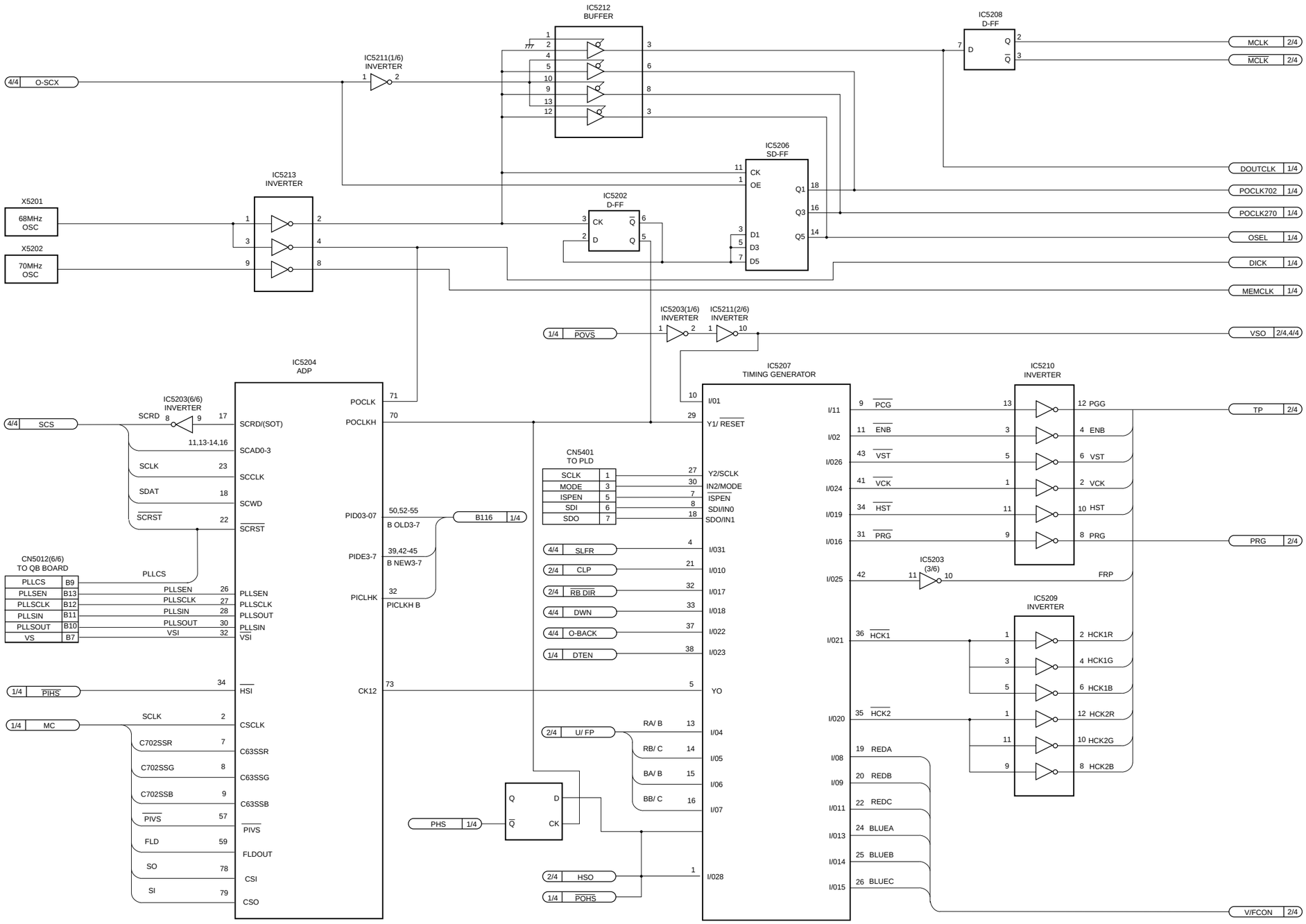
QB BLOCK (2/2)


CN5011(4/4)
TO QB BOARD
R_OLD0 B30
R_OLD1 A30
R_OLD2 B29
R_OLD3 A29
R_OLD4 B28
R_OLD5 A28
R_OLD6 B27
R_OLD7 A27
R_NEW0 B25
R_NEW1 A25
R_NEW2 B24
R_NEW3 A24
R_NEW4 B23
R_NEW5 A23
R_NEW6 B22
R_NEW7 A22
PICLKH_R B30
PICLKH_R A30
G_OLD0 B18
G_OLD1 A18
G_OLD2 B17
G_OLD3 A17
G_OLD4 B16
G_OLD5 A16
G_OLD6 B15
G_OLD7 A15
G_NEW0 B13
G_NEW1 A13
G_NEW2 B12
G_NEW3 A12
G_NEW4 B11
G_NEW5 A11
G_NEW6 B10
G_NEW7 A10
PICLKH_G B8
PICLKH_G A8
R116
G116
B116
CN5012(5/6)
TO QB BOARD
DSYNC B19
DSYNC A19
B_OLD0 B35
B_OLD1 A35
B_OLD2 B34
B_OLD3 A34
B_OLD4 B33
B_OLD5 A33
B_OLD6 B32
B_OLD7 A32
B_NEW0 B30
B_NEW1 A30
B_NEW2 B29
B_NEW3 A29
B_NEW4 B28
B_NEW5 A28
B_NEW6 B27
B_NEW7 A27
PICLKH_B B25
PICLKH_B A25
R: IC5501
G: IC5301
B: IC5401
MEMORY CONTROLLER
73-88 PID 00-15
92 PICLK
3/4 DTEN 91 DTEN
3/4 POVS 121 POVS
3/4 POHS 122 POHS
3/4 PIHS 95 PIHS
3/4 POCLK702 125 POCLK702
B116 3/4
SCRST 137 RST
FLD 96 PIFLD
C702SSG 130 SS
SCLK 131 SCLK
SI 132 SI
SO 134 SO
3/4 MC PIVS 94 PIVS
BA1 68
POSYRST 127
MD 00-31 1-7,10-17, 20-27,30-37 97-98,100,1-3, 6-7,60-61,63-64, 68-69,71-72,9-10, 12-13,17-18,20-21, 74-75,77-78,80-81, 83-84
MA 00-08 50-53,56-60,
DQM 1 40
DQM 0 41
CSO 42
MWR 66
BAO 67
RAS 69
CAS 70
MCLK 46
31-34,47-50
MEMCLK 3/4
PD 00-15 98-102,105-108, 110-115,118
R: IC5502
G: IC5302
B: IC5402
SG RAM
DQ 0-31
A0-A7
24 DQM 2
23 DQM 0
28 CS
25 WE
29 A9
27 RAS
26 CAS
55 CLK
IC5417
D-FF
2 D
3 CK
Q 5
12 D
11 CK
PR
Q 8 GBA1
10 POSYRST G
IC5601
BUS SWITCH
R016
3,5-6,23-24,26,31, 33-34,36-37,48-49, 51-52,54
G016
38,40-45,47
3/4 POCLK270 29 CLK
RED OLD 0-7
RED NEW0-7
GREEN OLD 0-3
GREEN NEW0-3
SEL 28
A1-A8 8-10,12-16, 1-3,40-44
A9-A12 17,19-21, 12-15
3/4 DOUTCLK 18
3/4 OSEL
IC5602
BUS SWITCH
29 CLK
SEL 28
A9-A12 17,19-21, 8-11
G016
38,40-45,47
GREEN OLD 4-7
GREEN NEW4-7
A8-A1 16-12,10-8, 19-26
B016
3,5-6,23-24,26,31, 33-34,36-37,48-49, 51-52,54
BLUE OLD 0-7
BLUE NEW0-7
IC5603
D/A
R0-R7
G3-G0
CLOCK
G7-G4
B7-B0
IOR 39 R 2/4
IOG 38 G 2/4
IOB 37 B 2/4
SYNC 6
BLANK 7

C BLOCK (1/4)

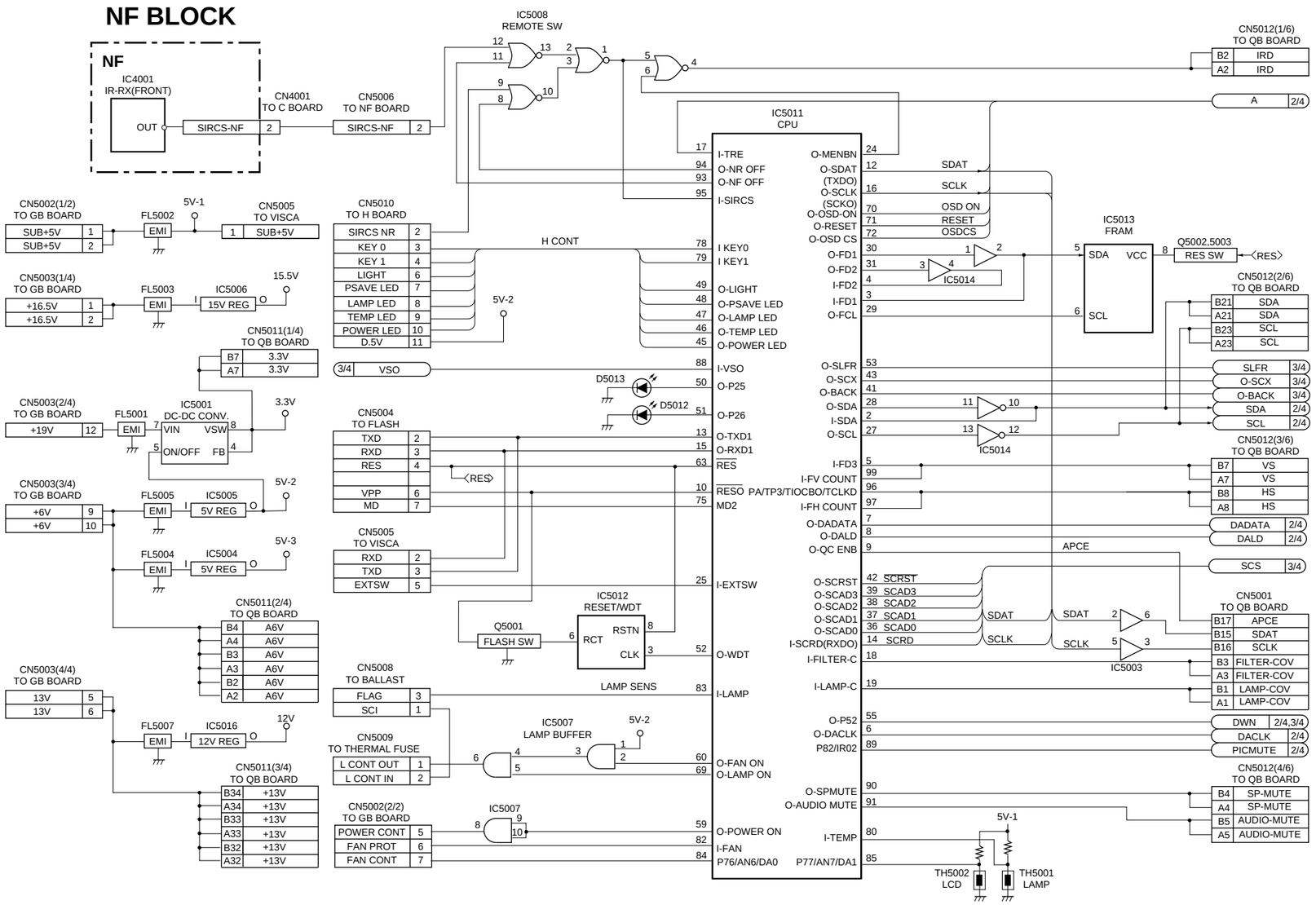

IC5662
RGB AMP
R IN
G IN
B IN
CLP IN
G-OSD
R-OSD
B-OSD
R-SCON
G-SCON
B-SCON
M-CON
R-SBRT
G-SBRT
B-SBRT
M-BRT
BLK IN
R OUT
G OUT
B OUT
TP5607 R MIX
TP5608 G MIX
TP5609 B MIX
IC5661(3/3)
IC5661(2/3)
IC5661(1/3)
5V-2
Q5601
PICMUTE
IC5608
γ CONT
R,G,B,GAIN
R,G,B,BIAS
R,G,B,WHP
R,G,B,BIP
R,G,B,B2P
PRG LEV
BLKLIM
SID LEV
SDA
SCL
POS-CON1
POS-CON2
DLY-CON
INV-CON
SID-OUT
V33
DIR-CON
PRG PLS
DRIVER CONT
G:IC5702
B:IC5801
R:IC5803
LCD DRIVER
VIDEO IN
POS-CNT1
POS-CNT2
DLY-CON
INV-CON
SID-IN
SID-OFST
SID-OUT
CLK-OUT
CLK-IN
SH-OUT1
I
SH-OUT6
SH-IN
INV-OUT
VCOMOUT
DIR-CNT
PRG
SIG CEN
VCOM OFST
MCLK
FRP
ENB
NEXT-IN
NEXT-OUT
R VCOM
G VCOM
B VCOM
G:Q5701,5704
B:Q5703,5706
R:Q5702,5705
BUFFER
G:CN5802
B:CN5701
R:CN5801
TO LCD PANEL
PS2G
VSIG1
VSIG2
VSIG3
VSIG4
VSIG5
VSIG6
COM
RGT
HST
HCK2
HCK1
ENB
VCK
VST
PCG
VSIG7
VSIG8
VSIG9
VSIG10
VSIG11
VSIG12
DWN
IC5660
OSD
TEST
VOB1
GOUT(C2)
ROUT(C1)
BOUT(C0)
OSDCS
SDAT
SCLK
TRE
OSDON
RESET
RESN
CS
SIN
SCLK
TRE
DISP
RESET
HSYNC
V SYNC
DOCK1
VSYNC
IC5614
SWITCH
BLUE LC
BLUE LB
BLUE LA
BLUE C
BLUE B
BLUE A
RED LC
RED LB
RED LA
RED C
RED B
RED A
IC5613
SWITCH
V/F CON
IC5607
36 CH D/A
G SCON
MAIN CONT
R-SBRT
G-SBRT
B-SBRT
MAIN BRT
OSD ADJ
R,G,B GAIN
R,G,B BIAS
R,G,B WHP
R,G,B BIP
R,G,B B2P
PRG LEV
BLKLIM
SID LEV
D1
CLK
LD
DADATA
DACLK
DALD
RED PA
RED PB
BLUE PA
BLUE PB
IC5701
DAC
SCL
SDA
RESN
RI
A04
A03
A02
A01
A05
SCEN
B VCOM
G VCOM
R VCOM
IC5211
(4/6)
RB DIR
MCLK
MCLK
IC5203
(4/6)
IC5211
(5/6)
Q5603
BUFFER
Q5604
BUFFER
SAW GEN
R5602
IC5611(1/2)
COMPARATOR
RA/B
IC5611(2/2)
COMPARATOR
RB/C
IC5612(1/2)
COMPARATOR
BA/B
IC5612(2/2)
COMPARATOR
BB/C
TP
U/FP
DWN
G:IC5703
B:IC5802
R:IC5804
LCD DRIVER
SH-OUT1
I
SH-OUT6
VID1
VID2
VID3
VID4
VID5
VID6
VID7
VID8
VID9
VID10
VID11
VID12
R,G,B
PRG
SCL
SDA
PICMUTE
A
VSO
DICK
PHS

C BLOCK (2/4)

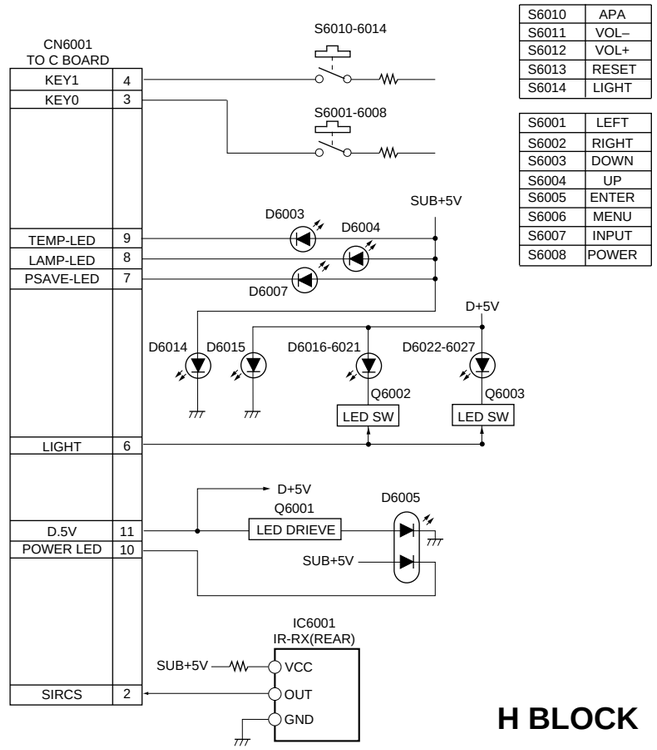

IC5212 BUFFER
IC5208 D-FF
IC5211(1/6) INVERTER
4/4 O-SCX
MCLK 2/4
MCLK 2/4
IC5206 SD-FF
IC5213 INVERTER
DOUTCLK 1/4
POCLK702 1/4
POCLK270 1/4
OSEL 1/4
DICK 1/4
MEMCLK 1/4
X5201
68MHz OSC
X5202
70MHz OSC
IC5202 D-FF
IC5203(1/6) INVERTER
IC5211(2/6) INVERTER
1/4 POVS
VSO 2/4,4/4
IC5204 ADP
IC5207 TIMING GENERATOR
IC5210 INVERTER
IC5203(6/6) INVERTER
4/4 SCS
SCRD
SCRD/(SOT)
SCAD0-3
11,13-14,16
SCLK
SCCLK
SDAT
SCWD
SCRST
SCRST
POCLK
POCLKH
CN5401 TO PLD
SCLK
MODE
ISPEN
SDI
SDO
Y2/SCLK
IN2/MODE
ISPEN
SDI/IN0
SDO/IN1
PID03-07
50,52-55
B OLD3-7
B116 1/4
PIDE3-7
39,42-45
B NEW3-7
PICLHK
32
PICLKH B
4/4 SLFR
2/4 CLP
2/4 RB DIR
4/4 DWN
4/4 O-BACK
1/4 DTEN
CN5012(6/6) TO QB BOARD
PLLCS B9
PLLSEN B13
PLLSCLK B12
PLLSIN B11
PLLSOUT B10
VS B7
PLLCS
PLLSEN
PLLSCLK
PLLSIN
PLLSOUT
VSI
PLLSEN
PLLSCLK
PLLSOUT
PLLSIN
VSI
1/4 PIHS
HSI
CK12
YO
1/4 MC
SCLK
CSCLK
C702SSR
C63SSR
C702SSG
C63SSG
C702SSB
C63SSB
PIVS
PIVS
FLD
FLDOUT
SO
CSI
SI
CSO
2/4 U/ FP
RA/ B
RB/ C
BA/ B
BB/ C
I/04
I/05
I/06
I/07
PHS 1/4
Q D Q CK
2/4 HSO
1/4 POHS
I/028
I/01
Y1/ RESET
I/11
I/02
I/026
I/024
I/019
I/016
I/025
I/021
I/020
I/08
I/09
I/011
I/013
I/014
I/015
PCG
ENB
VST
VCK
HST
PRG
IC5203 (3/6)
FRP
IC5209 INVERTER
HCK1
HCK2
REDA
REDB
REDC
BLUEA
BLUEB
BLUEC
PGG
ENB
VST
VCK
HST
PRG
HCK1R
HCK1G
HCK1B
HCK2R
HCK2G
HCK2B
TP 2/4
PRG 2/4
V/FCON 2/4

C BLOCK (3/4)

NF BLOCK



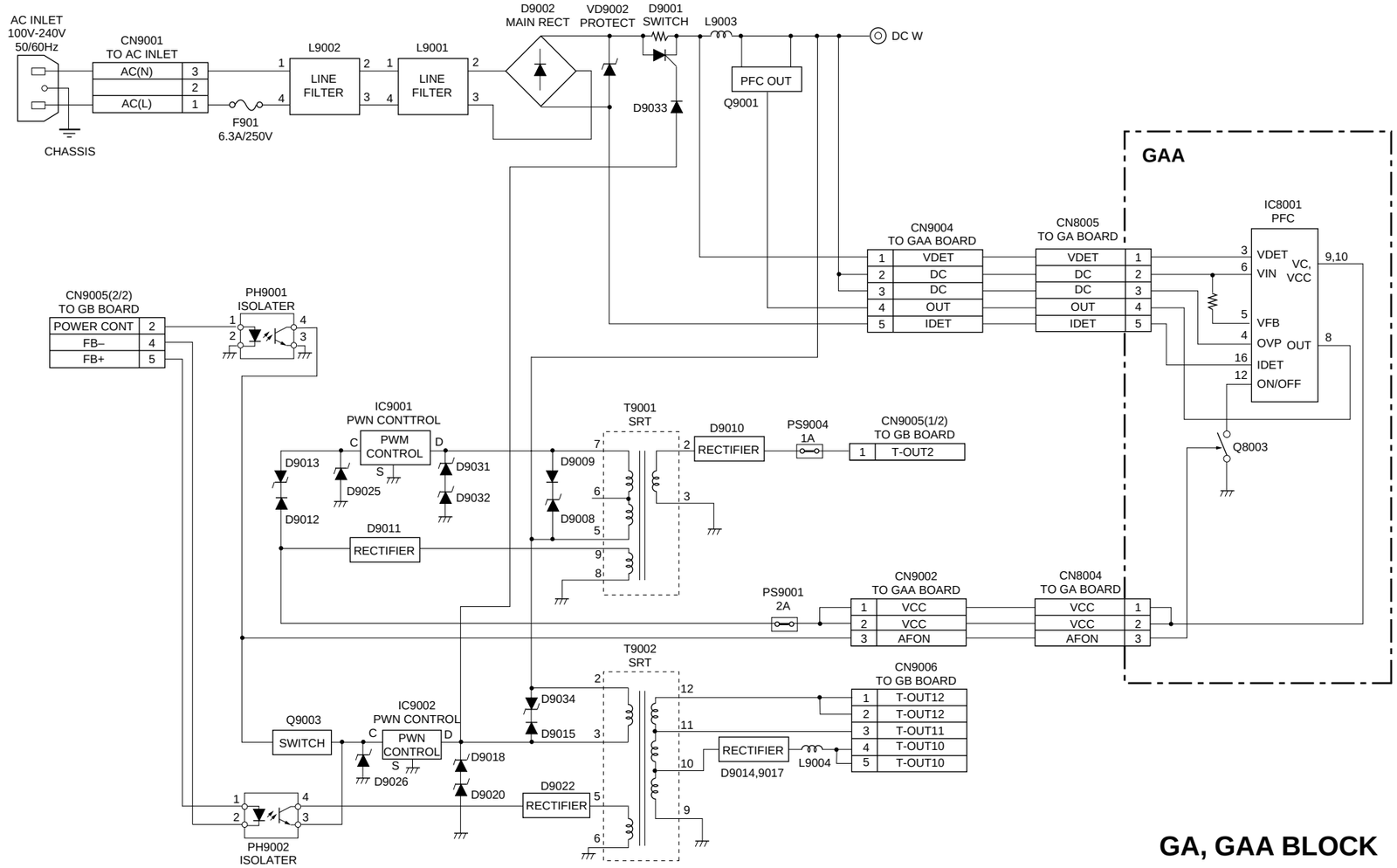
C BLOCK (4/4)



S6010	APA
S6011	VOL–
S6012	VOL+
S6013	RESET
S6014	LIGHT

S6001	LEFT
S6002	RIGHT
S6003	DOWN
S6004	UP
S6005	ENTER
S6006	MENU
S6007	INPUT
S6008	POWER

H BLOCK


AC INLET
100V-240V
50/60Hz
CHASSIS
CN9001
TO AC INLET
AC(N) 3
2
AC(L) 1
F901
6.3A/250V
L9002
LINE FILTER
L9001
LINE FILTER
D9002
MAIN RECT
VD9002
PROTECT
D9001
SWITCH
L9003
DC W
PFC OUT
Q9001
D9033
GAA
IC8001
PFC
VDET
VIN
VC, VCC
VFB
OVP
OUT
IDET
ON/OFF
9,10
8
Q8003
CN9004
TO GAA BOARD
1 VDET
2 DC
3 DC
4 OUT
5 IDET
CN8005
TO GA BOARD
VDET 1
DC 2
DC 3
OUT 4
IDET 5
CN9005(2/2)
TO GB BOARD
POWER CONT 2
FB– 4
FB+ 5
PH9001
ISOLATER
IC9001
PWN CONTTROL
PWM CONTROL
C
D
S
D9013
D9025
D9012
D9031
D9032
D9011
RECTIFIER
T9001
SRT
D9009
D9008
D9010
RECTIFIER
PS9004
1A
CN9005(1/2)
TO GB BOARD
1 T-OUT2
PS9001
2A
CN9002
TO GAA BOARD
1 VCC
2 VCC
3 AFON
CN8004
TO GA BOARD
VCC 1
VCC 2
AFON 3
T9002
SRT
D9034
D9015
Q9003
SWITCH
IC9002
PWN CONTROL
PWN CONTROL
D9026
D9018
D9020
D9022
RECTIFIER
D9014,9017
L9004
CN9006
TO GB BOARD
1 T-OUT12
2 T-OUT12
3 T-OUT11
4 T-OUT10
5 T-OUT10
PH9002
ISOLATER

GA, GAA BLOCK

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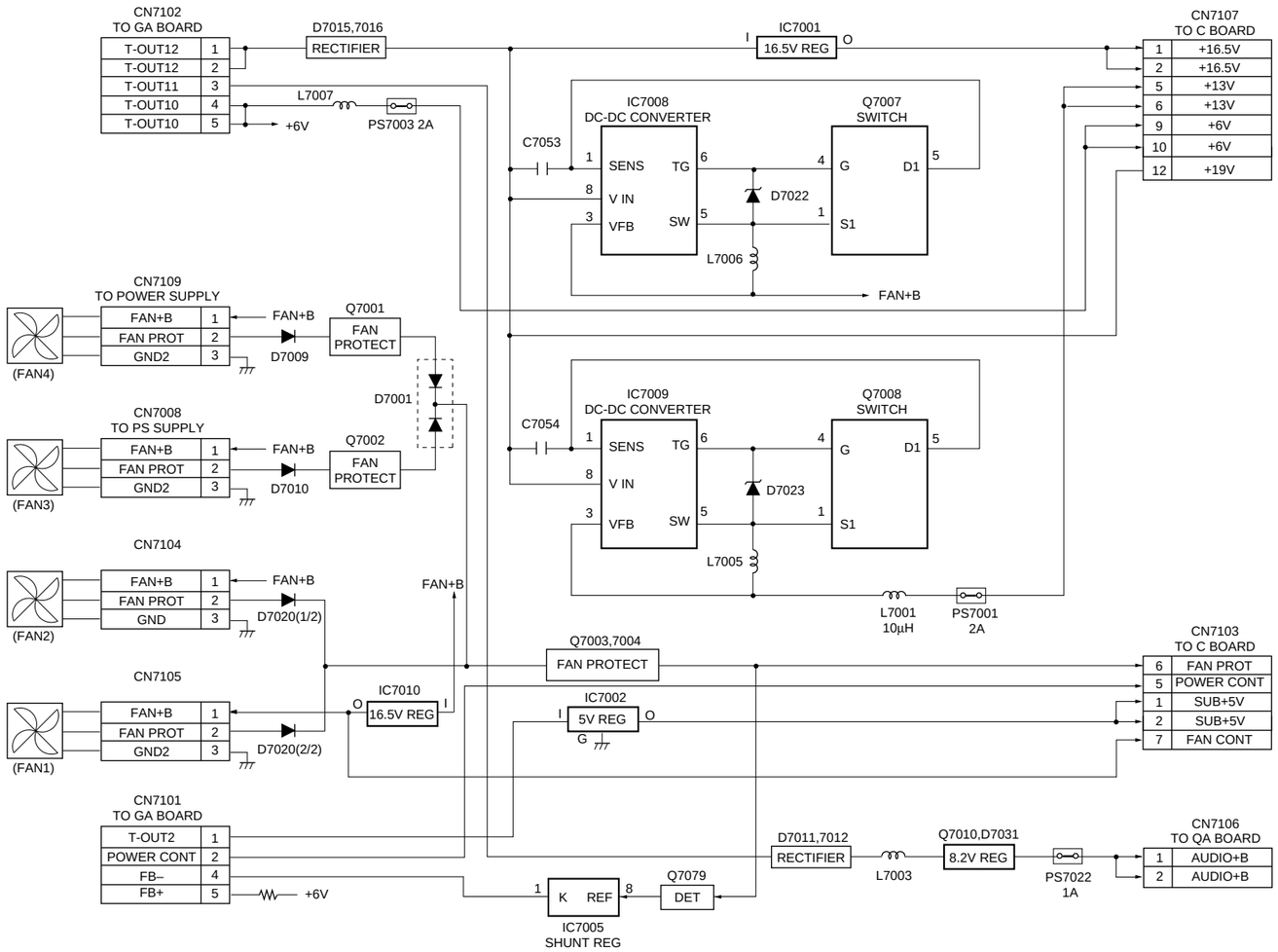
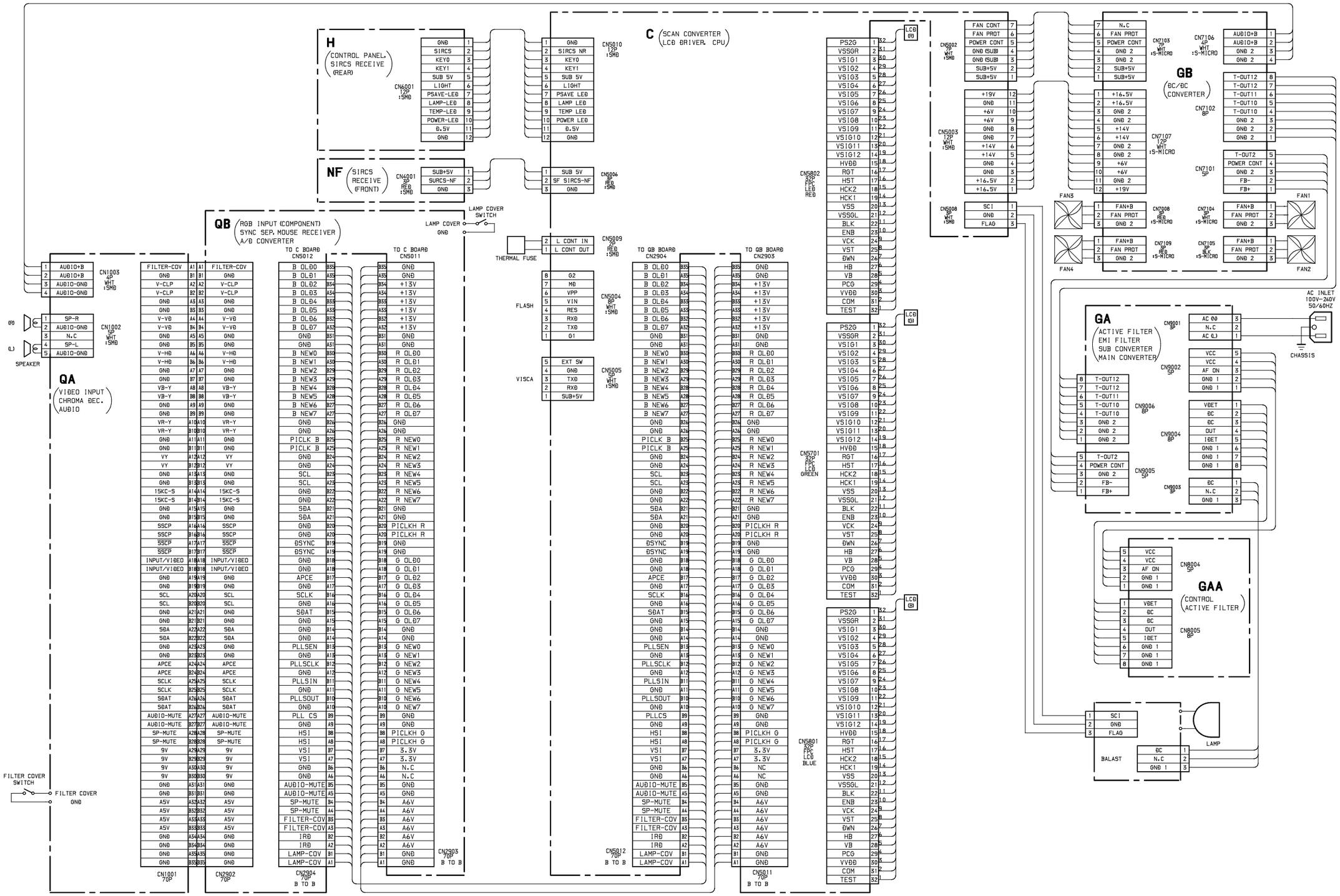


GB BLOCK

SECTION 8
DIAGRAMS

8-1. FRAME SCHEMATIC DIAGRAM



8-1 8-1

8-2. SCHEMATIC DIAGRAMS/PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted.
  50WV or less are not indicated except for electrolytics.
  pF: µµF
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W

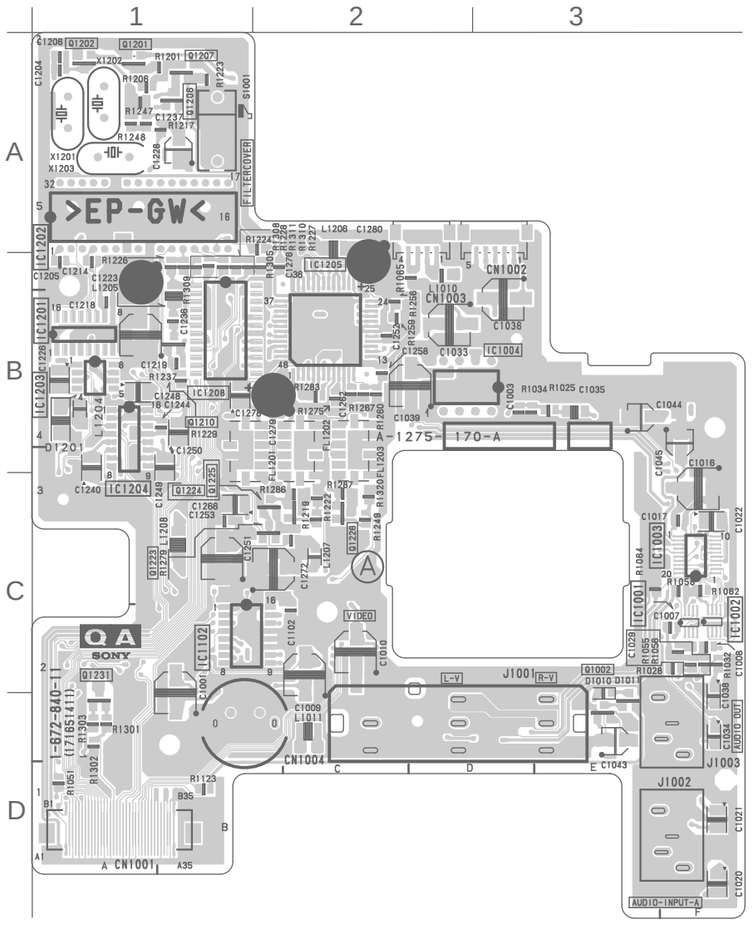
- Chip resister are 1/10W unless otherwise noted.
- All resistors are in ohms. (MΩ = 1000KΩ, KΩ = 1000Ω)
- : nonfiammable resistor.
- : fusible resistor.
- △ : internal component.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- METAL FILM (: RN) resister in 0.5% or 1%, 1/4W unless otherwise specified.
- All voltages are in V.
- Voltage variations may be noted due to normal production tolerance.
- Reading are taken with Composite Video signal input from color-bar pattern generator.
- Voltage are dc with respect to ground unless otherwise noted.
- : B+/B– line.
- : signal path.
- Circled numbers are waveforms reference.

Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

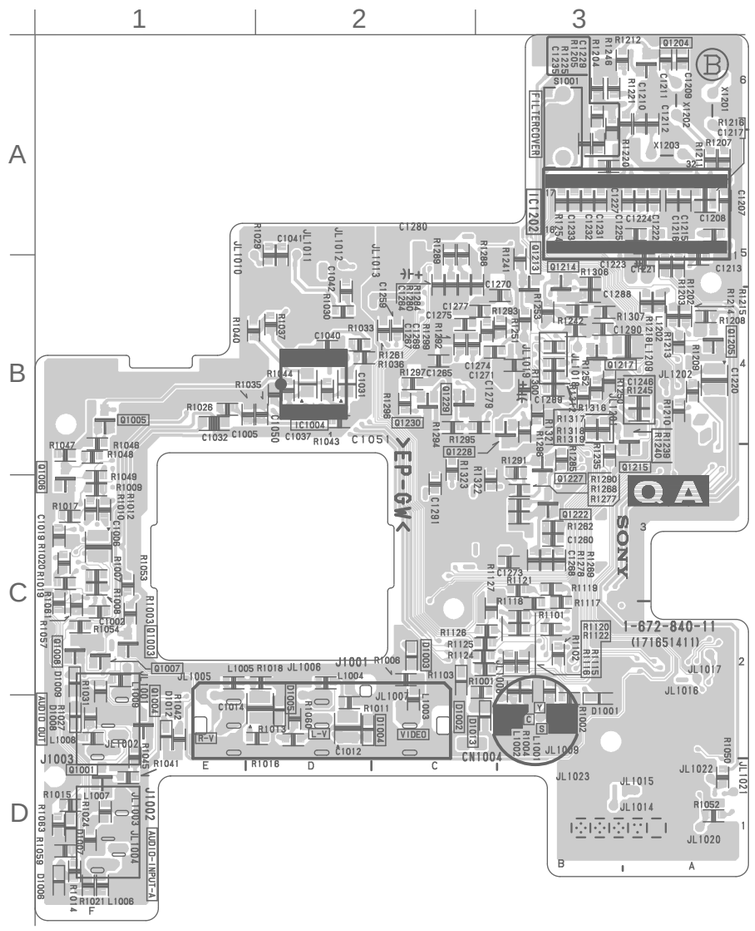
The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une piéce portant le numéro spécifié.



QA –A SIDE–

SUFFIX : -11



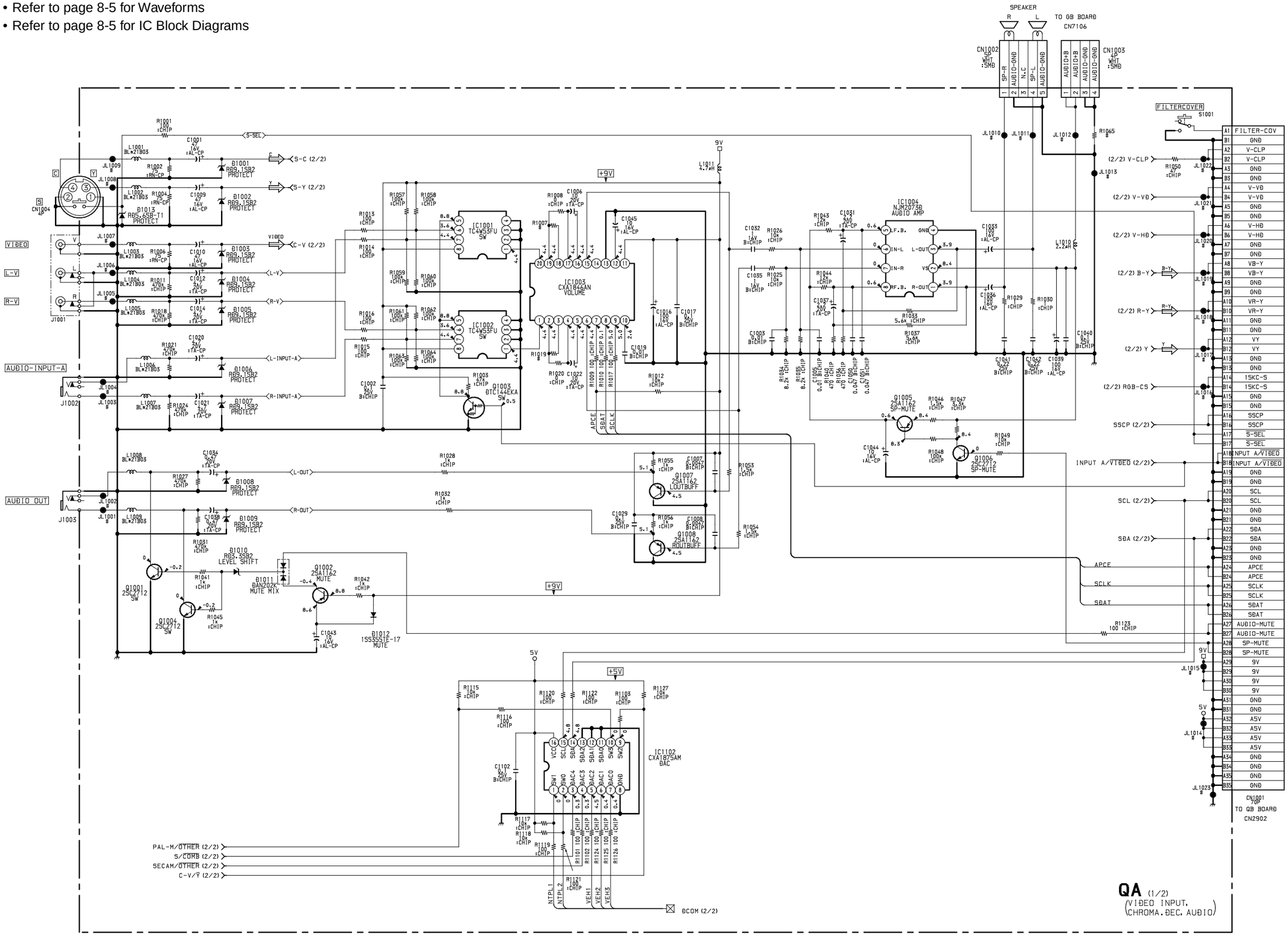
QA –B SIDE–

SUFFIX : -11

```
--
QA
--
1-672-840-11


D1001     * D-3   IC1204     B-1   Q1222     * C-3
D1002     * D-2   IC1205     B-2   Q1223       C-2
D1003     * C-2   IC1208     B-1   Q1224       C-2
D1004     * D-2                    Q1225       C-2
D1005     * D-2   Q1001     * D-1   Q1226       C-2
D1006     * D-1   Q1002       D-3   Q1227     * B-3
D1007     * D-1   Q1003     * C-1   Q1228     * B-3
D1008     * D-1   Q1004     * C-1   Q1229     * B-2
D1009     * C-1   Q1005     * B-1   Q1230     * B-2
D1010       D-3   Q1006     * C-1   Q1231       D-1
D1011       D-3   Q1007     * C-1
D1012     * D-1   Q1008     * C-1   *:B Side mount
D1013     * D-3   Q1201       A-1
D1201       B-1   Q1202       A-1
                  Q1204     * A-3
IC1001      C-3   Q1205     * B-3
IC1002      C-3   Q1206       A-1
IC1003      C-3   Q1207       A-1
IC1004    * B-2   Q1210       B-1
IC1102      C-1   Q1213     * B-3
IC1201      B-1   Q1214     * B-3
IC1202    * A-3   Q1215     * B-3
IC1203      B-1   Q1217     * B-3
```

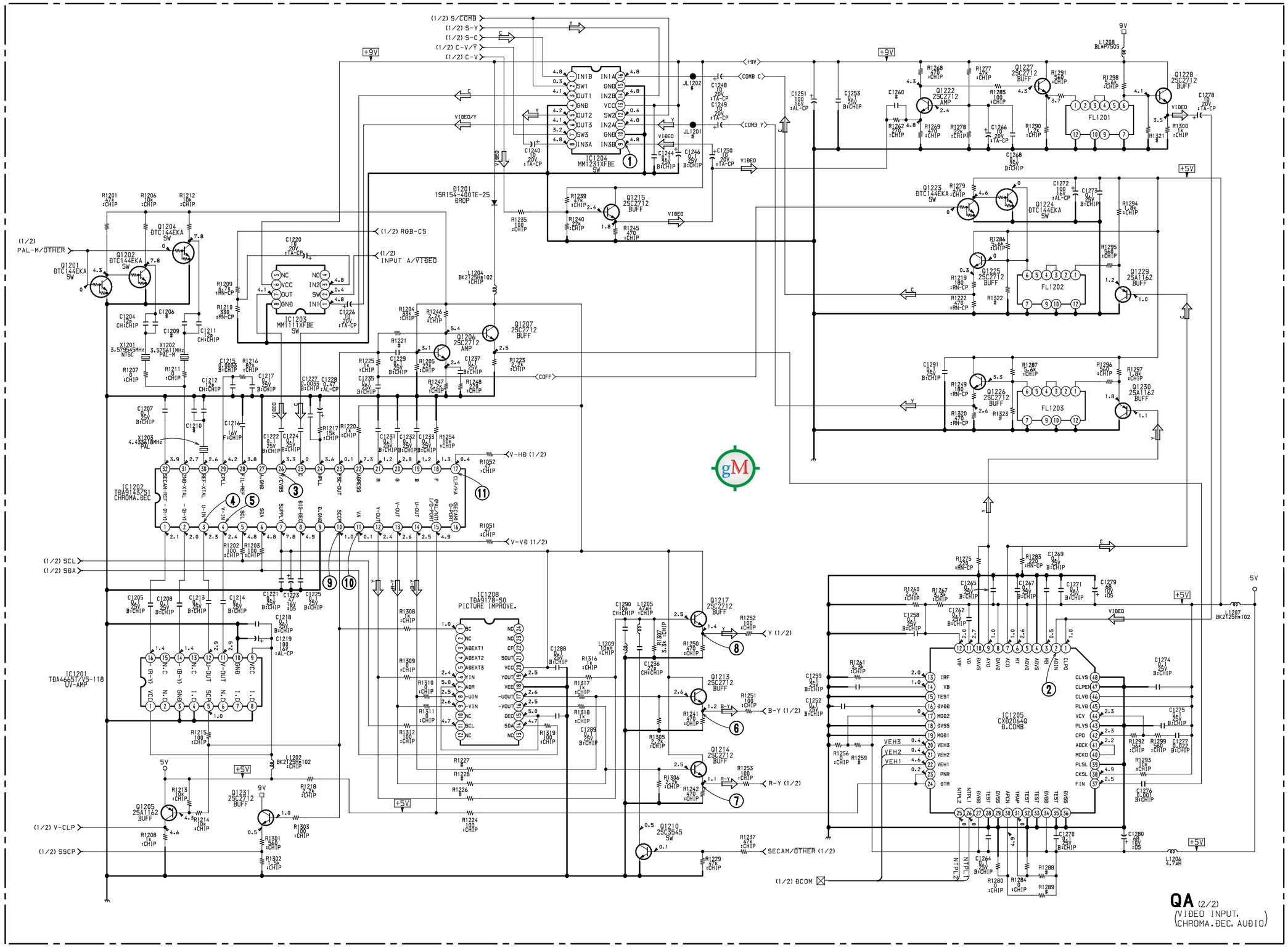
- Refer to page 8-2 for Printed Wiring Board
- Refer to page 8-5 for Waveforms
- Refer to page 8-5 for IC Block Diagrams



QA (1/2)
(VIDEO INPUT, CHROMA. DEC, AUDIO)

B-SS1658<09.>-QA-P1..

- Refer to page 8-2 for Printed Wiring Board
- Refer to page 8-5 for IC Block Diagrams
- Refer to page 8-5 for Waveforms



QA (2/2)
(VIDEO INPUT, CHROMA.DEC, AUDIO)

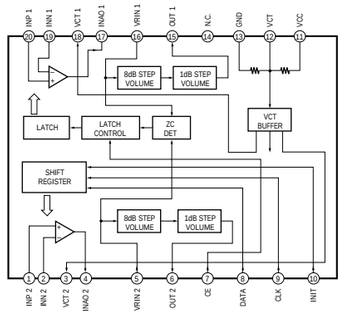
B-SS1658<09.>-QA-P2..

QA Board Waveforms

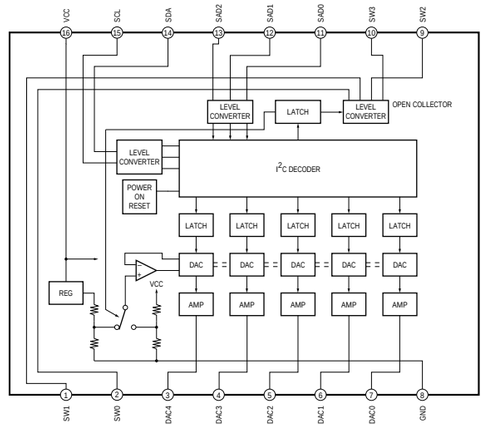
① 1.0Vp-p (H) VIDEO	② 1.5Vp-p (H) VIDEO
③ 1.0Vp-p (H) VIDEO/Y	④ 1.5Vp-p (H) U-IN
⑤ 1.1Vp-p (H) V-IN	⑥ 1.2Vp-p (H) B-Y
⑦ 950mVp-p (H) R-Y	⑧ 1.5Vp-p (H) Y
⑨ 4.0Vp-p (H) SCCP	⑩ 5.0Vp-p (V) V-VD
⑪ 5.0Vp-p (H) V-HD	

QA Board IC Block Diagrams

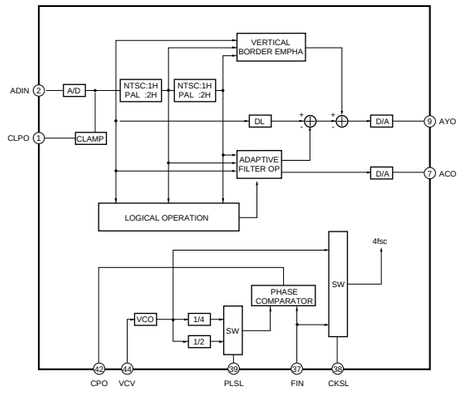
CXA1846AN-T4 (IC1003)



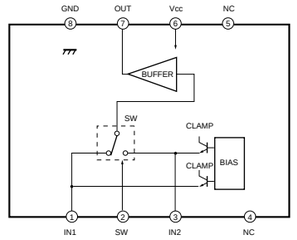
CXA1875AM-T4 (IC1102)



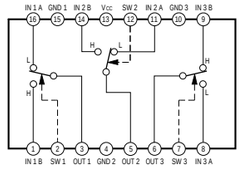
CXD2064Q-T6 (IC1205)



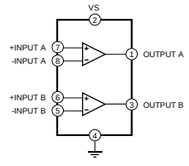
MM1111XFBE (IC1203)



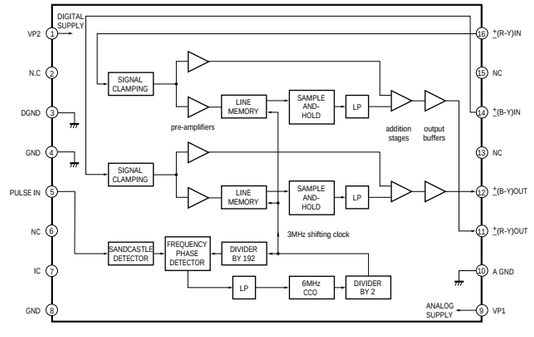
MM1231XFBE (IC1204)



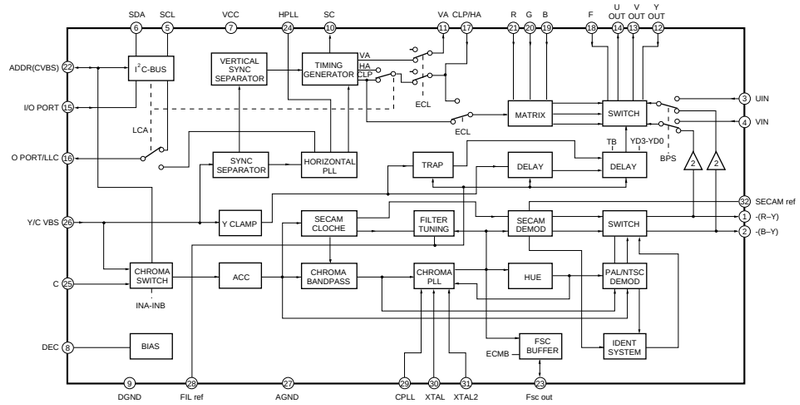
NJM2073D (IC1004)



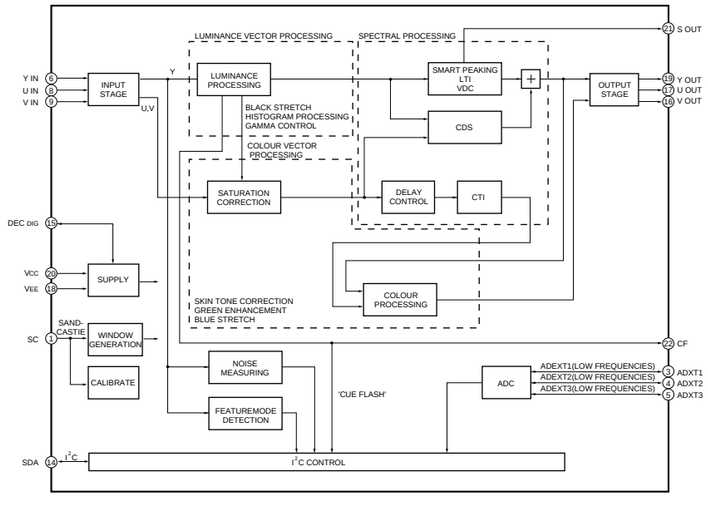
TDA4665T/V5-118 (IC1201)



TDA9143/S1 (IC1202)



TDA9178-S0 (IC1208)



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QB
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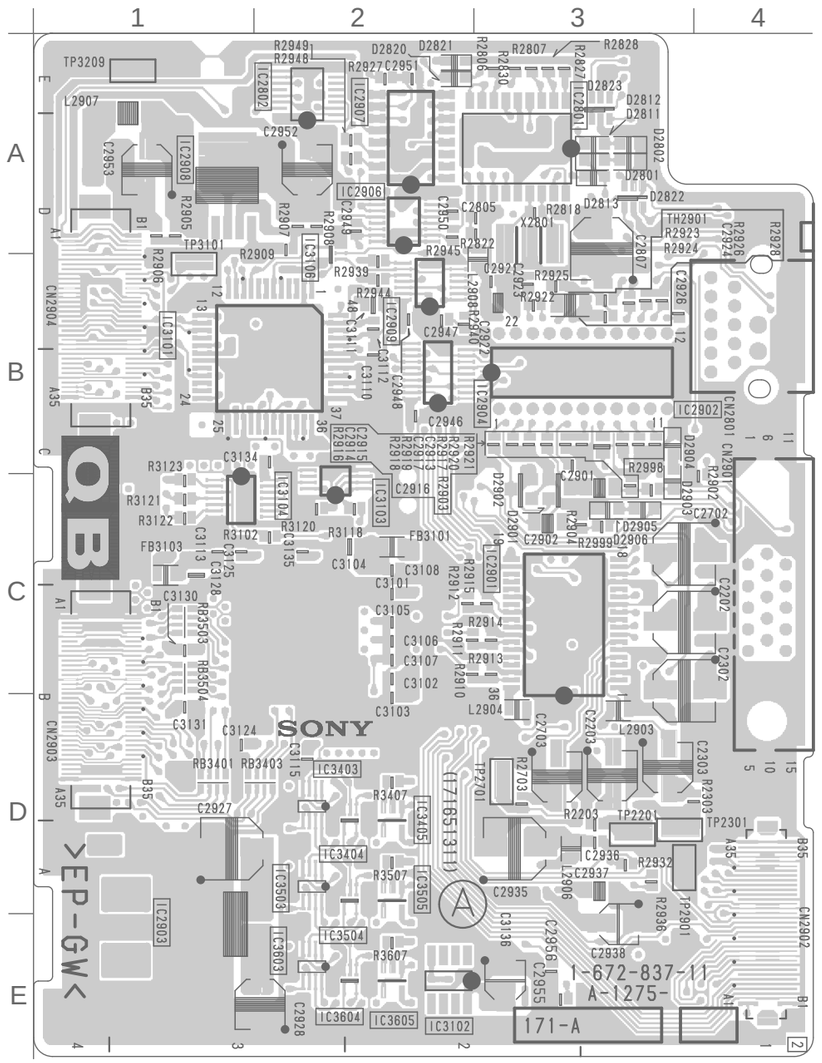
1-672-837-11

D2201	*C-1
D2301	*C-1
D2501	*D-3
D2701	*C-1
D2801	A-3
D2802	A-3
D2811	A-3
D2812	A-3
D2813	A-3
D2814	*B-2
D2815	*A-2
D2816	*A-2
D2817	*A-1
D2818	*A-1
D2821	A-2
D2822	A-3
D2823	A-3
D2901	C-3
D2902	C-3
D2903	C-3
D2904	B-3
D2905	C-3
D2906	C-3
D2907	*E-4

IC2801	A-3
IC2802	A-2
IC2901	C-3
IC2902	*B-2
IC2904	B-2
IC2905	*D-2
IC2906	A-2
IC2907	A-2
IC2908	A-1
IC2909	B-2
IC3101	B-2
IC3102	E-2
IC3103	C-2
IC3104	C-1
IC3105	*C-3
IC3106	A-2
IC3403	D-2
IC3404	D-2
IC3405	D-2
IC3503	D-2
IC3504	D-2
IC3505	D-2
IC3603	E-2
IC3604	E-2
IC3605	E-2

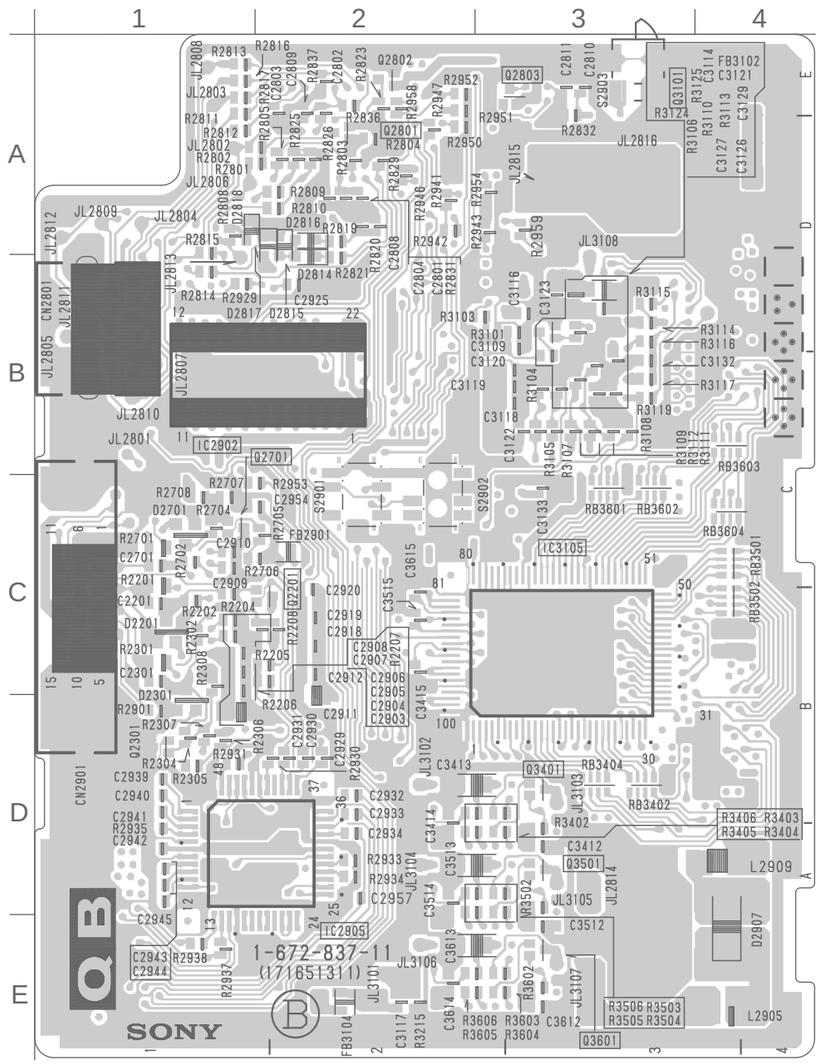
Q2201	*C-2
Q2301	*C-1
Q2701	*C-1
Q2801	*A-2
Q2802	*A-2
Q2803	*A-3
Q3401	*D-3

*:B Side mount



QB –A SIDE–

SUFFIX : -11



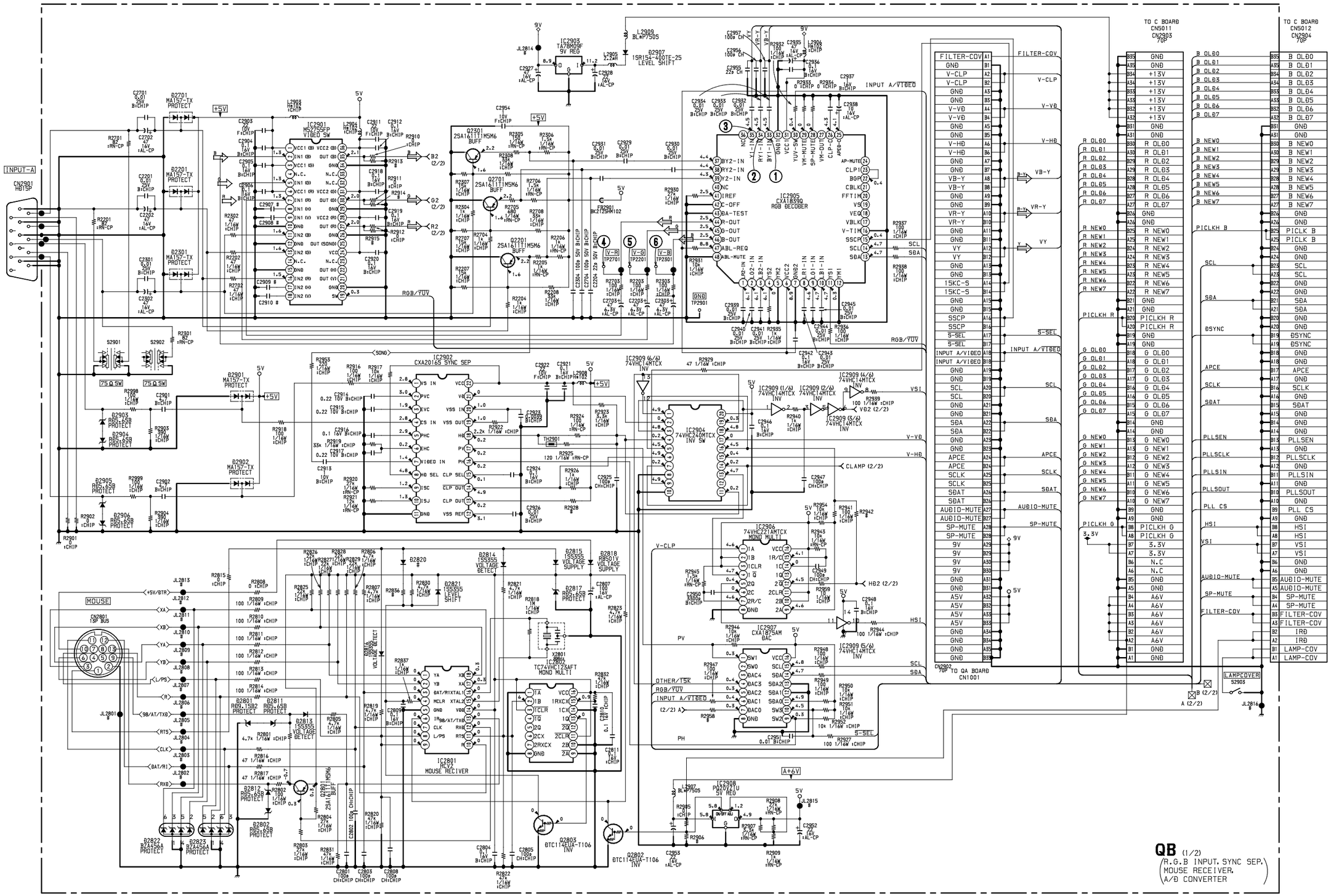
QB –B SIDE–

SUFFIX : -11

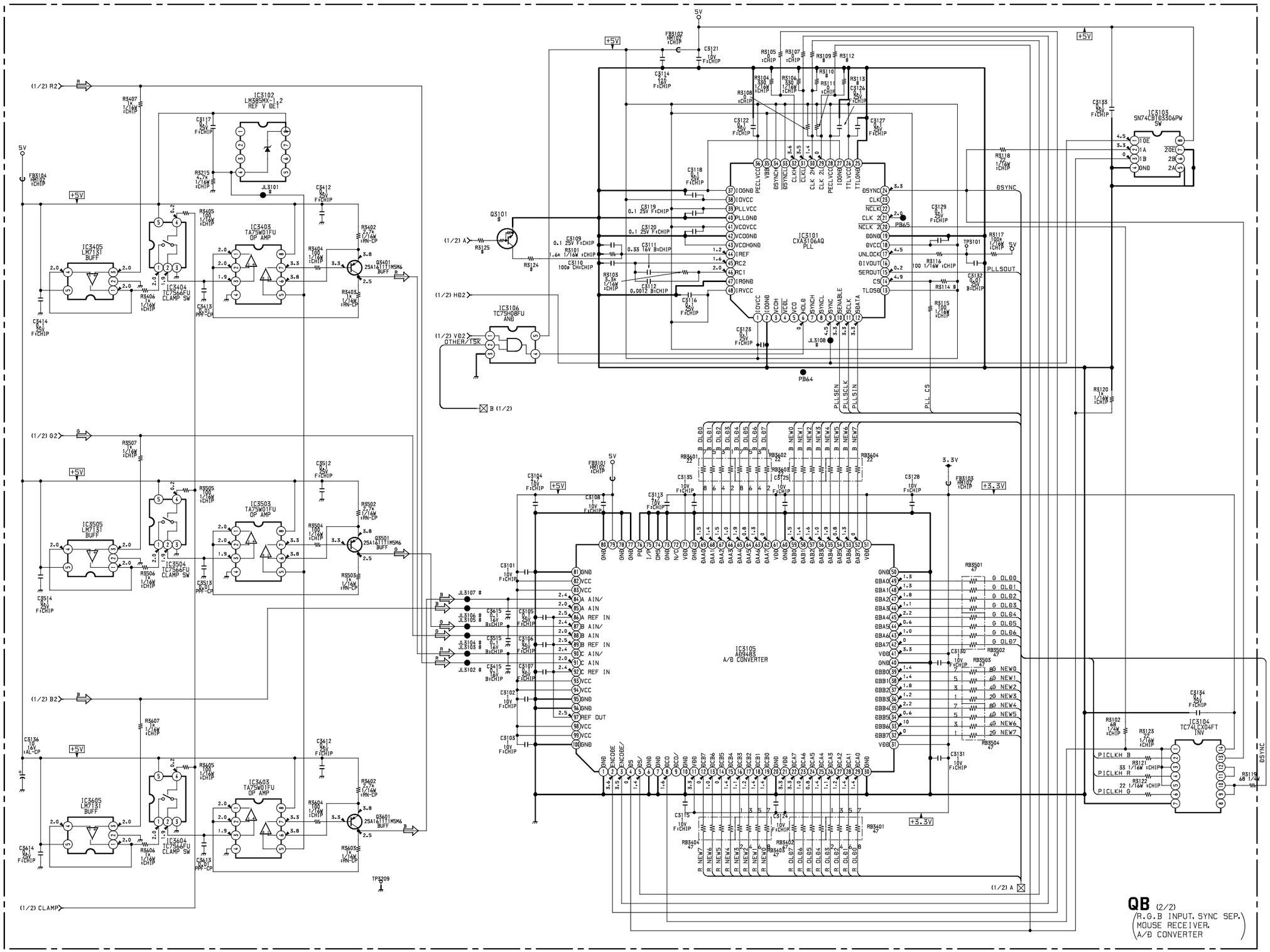
QB Board Waveforms

① 1.0Vp-p (H) BY1-IN	② 0.8Vp-p (H) RY1-IN	③ 0.6Vp-p (H) Y1-IN
④ 0.7Vp-p (H) TP2701 V-R	⑤ 0.4Vp-p (H) TP2201 V-G	⑥ 0.5Vp-p (H) TP2301 V-B

- Refer to page 8-6 for Printed Wiring Board
- Refer to page 8-6 for Waveforms
- Refer to page 8-9 for IC Block Diagrams



- Refer to page 8-6 for Printed Wiring Board
- Refer to page 8-6 for Waveforms
- Refer to page 8-9 for IC Block Diagrams



QB (2/2)
(R.G.B INPUT, SYNC SEP, MOUSE RECEIVER, A/D CONVERTER)

B-SS1658<09.>-QB-P2..

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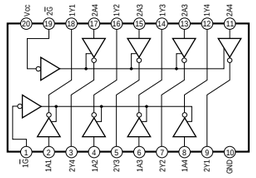
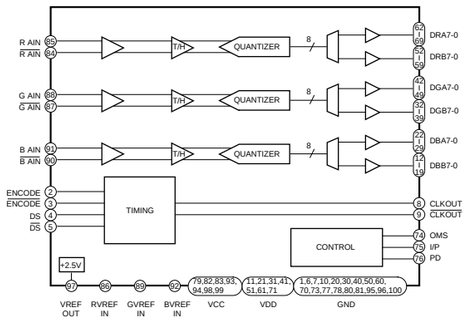
QB Board IC Block Diagrams

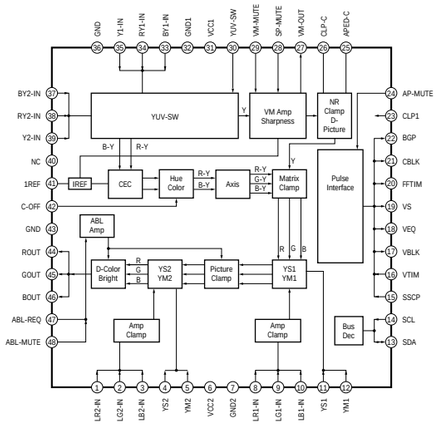
74VHC240MTCX (IC2904)



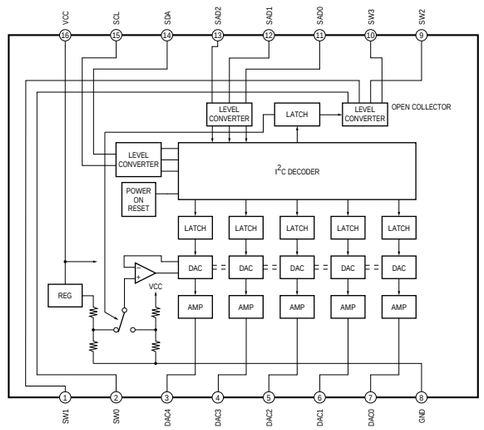
AD9483KS-140 (IC3105)



CXA1839Q-T6 (IC2905)

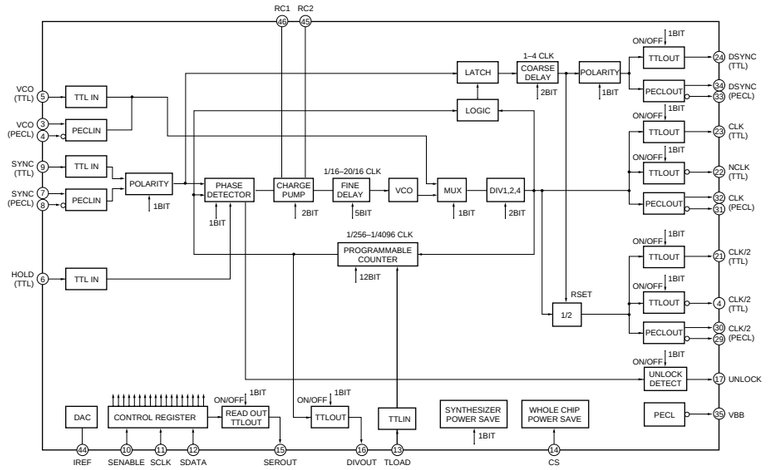


CXA1875AM-T4 (IC2907)

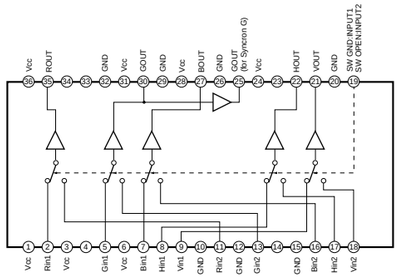


CXA2016S (IC2902)

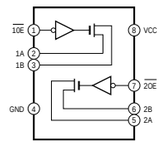
CXA3106AQ (IC3101)



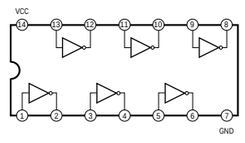
M52755FP-TP (IC2901)



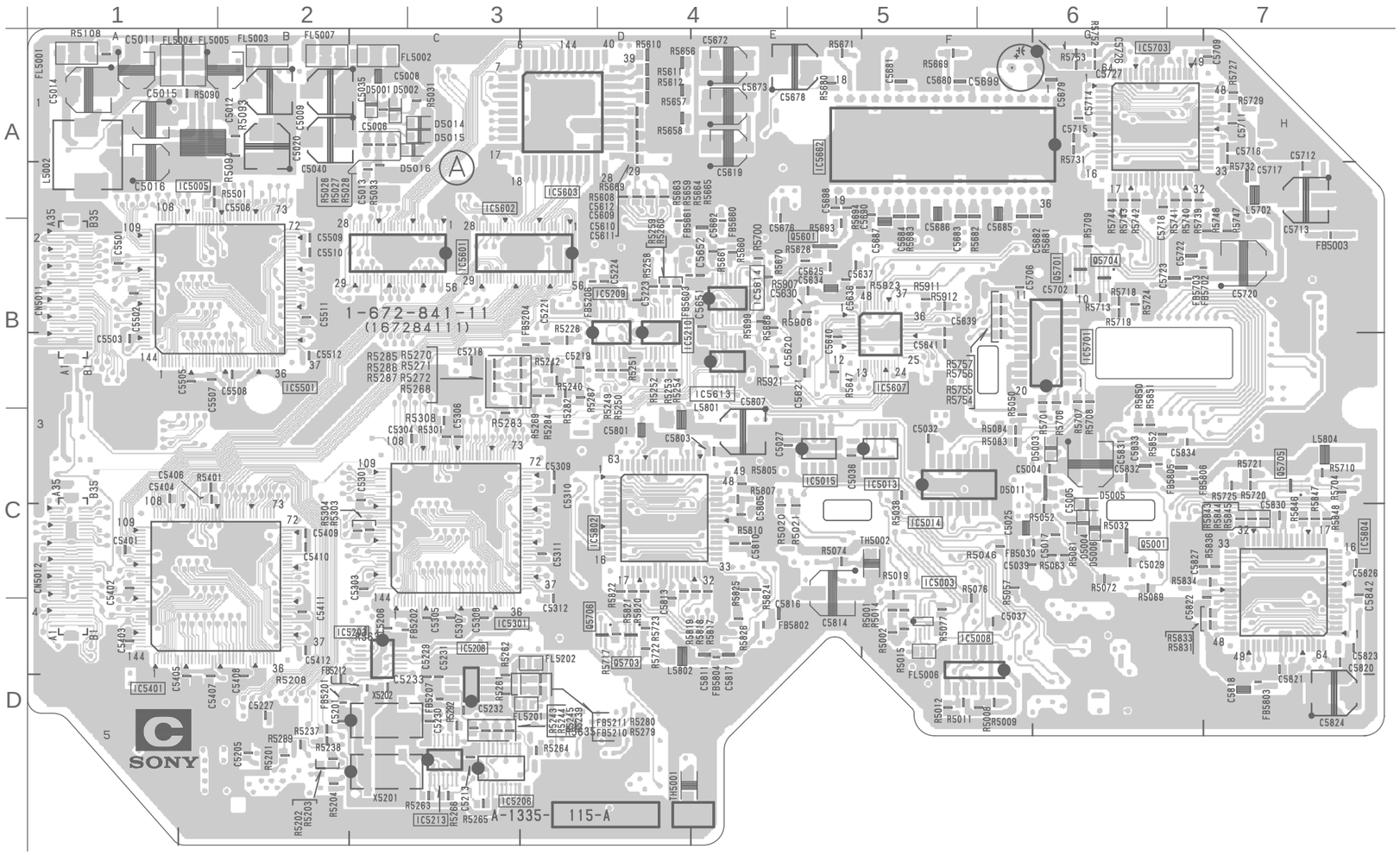
SN74CBD3306PW-E20 (IC3103)



TC74LCX04FT (IC3104)



8-9



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C
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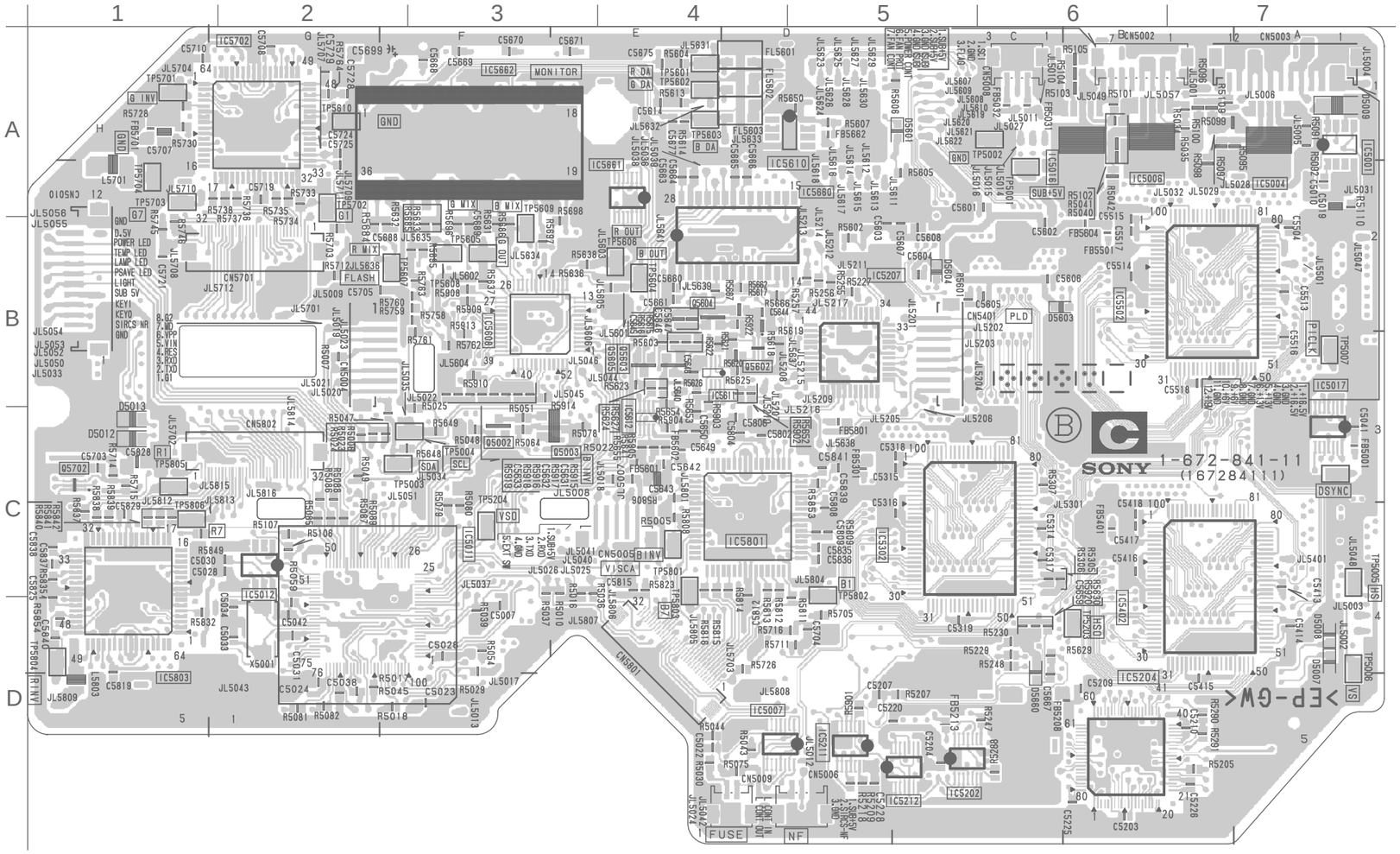
1-672-841-11

D5001	A-2
D5002	A-2
D5003	C-6
D5004	C-6
D5005	C-6
D5006	C-6
D5011	B-6
D5014	A-3
D5015	A-3
D5016	A-3
IC5003	D-5
IC5005	A-1
IC5008	D-5
IC5013	C-5
IC5014	C-5
IC5203	D-2
IC5206	D-3
IC5208	D-3
IC5209	B-4
IC5210	B-4
IC5213	C-3
IC5301	C-3
IC5401	C-1
IC5501	B-1
IC5601	B-2
IC5602	B-3
IC5603	A-3
IC5607	B-5
IC5613	B-4
IC5614	B-4
IC5701	B-6
IC5703	A-6
IC5802	C-4
IC5804	C-7
Q5001	B-6
Q5601	B-5
Q5701	B-6
Q5703	D-4
Q5704	B-6
Q5705	C-7
Q5706	D-4

C **–A SIDE–**

SUFFIX : -11



C –B SIDE–

SUFFIX : -11

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C
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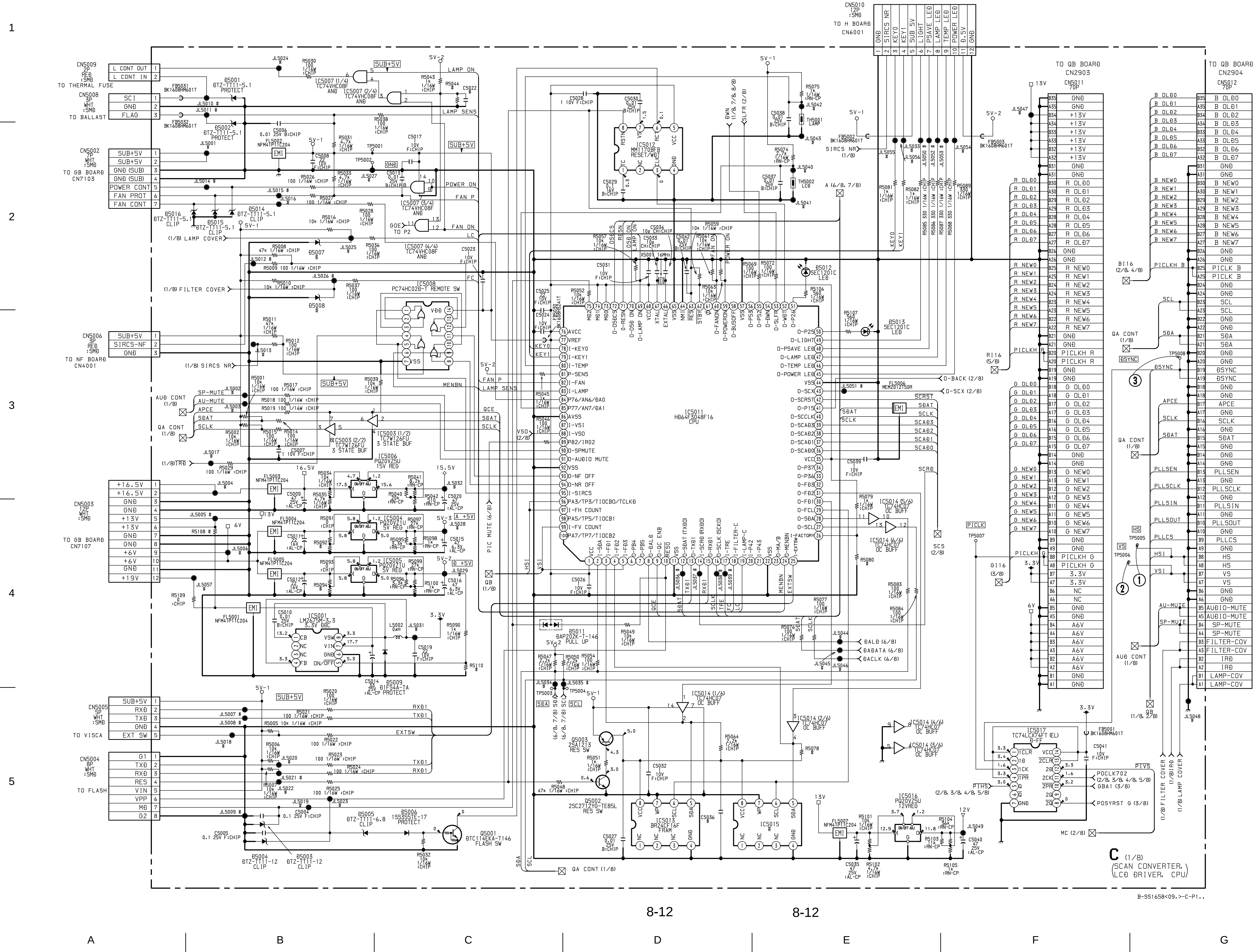
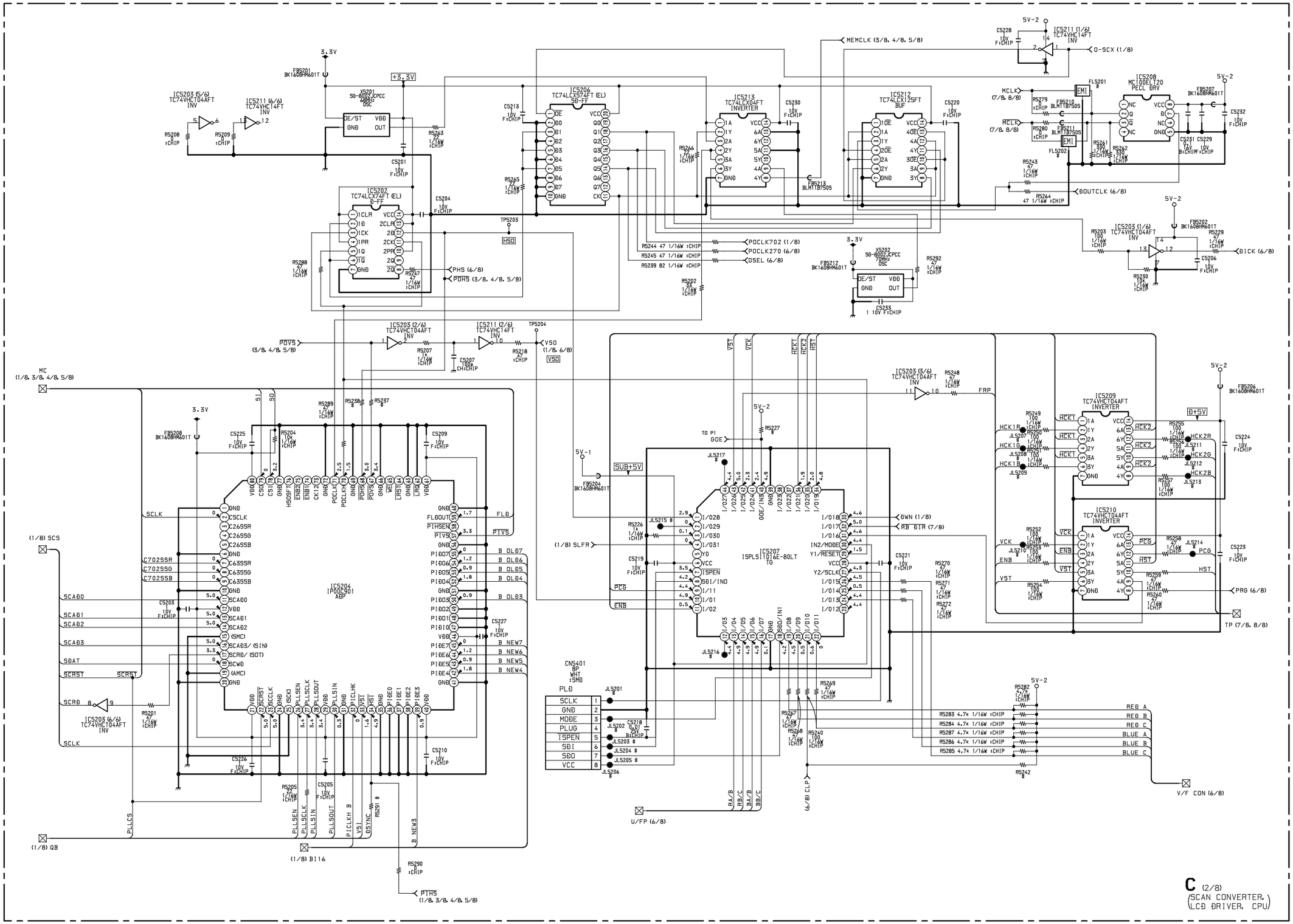
1-672-841-11

D5007	D-7
D5008	D-7
D5009	A-7
D5012	C-1
D5013	C-1
D5601	A-5
D5603	B-6
D5604	B-5
D5660	D-6
IC5001	A-7
IC5004	A-7
IC5006	A-6
IC5007	D-4
IC5011	C-3
IC5012	C-2
IC5016	A-6
IC5017	B-7
IC5202	D-5
IC5204	D-6
IC5207	B-5
IC5211	D-5
IC5212	D-5
IC5302	C-5
IC5402	D-6
IC5502	B-6
IC5608	B-3
IC5610	A-4
IC5611	B-4
IC5612	C-4
IC5660	A-5
IC5661	A-4
IC5662	A-3
IC5702	A-2
IC5801	C-4
IC5803	D-1
Q5002	C-3
Q5003	C-3
Q5602	B-4
Q5603	B-4
Q5604	B-4
Q5605	B-4
Q5702	C-1
TP5001	A-6
TP5002	A-6
TP5003	C-2
TP5004	C-3
TP5005	C-7
TP5006	D-7
TP5007	B-7
TP5203	D-6
TP5204	C-3
TP5601	A-4
TP5602	A-4
TP5603	A-4
TP5605	B-3
TP5606	B-4
TP5607	B-2
TP5608	B-3
TP5609	A-3
TP5610	A-2
TP5701	A-1
TP5702	A-2
TP5703	A-1
TP5704	A-1
TP5801	C-4
TP5802	C-5
TP5803	D-4
TP5804	D-1
TP5805	C-1
TP5806	C-1

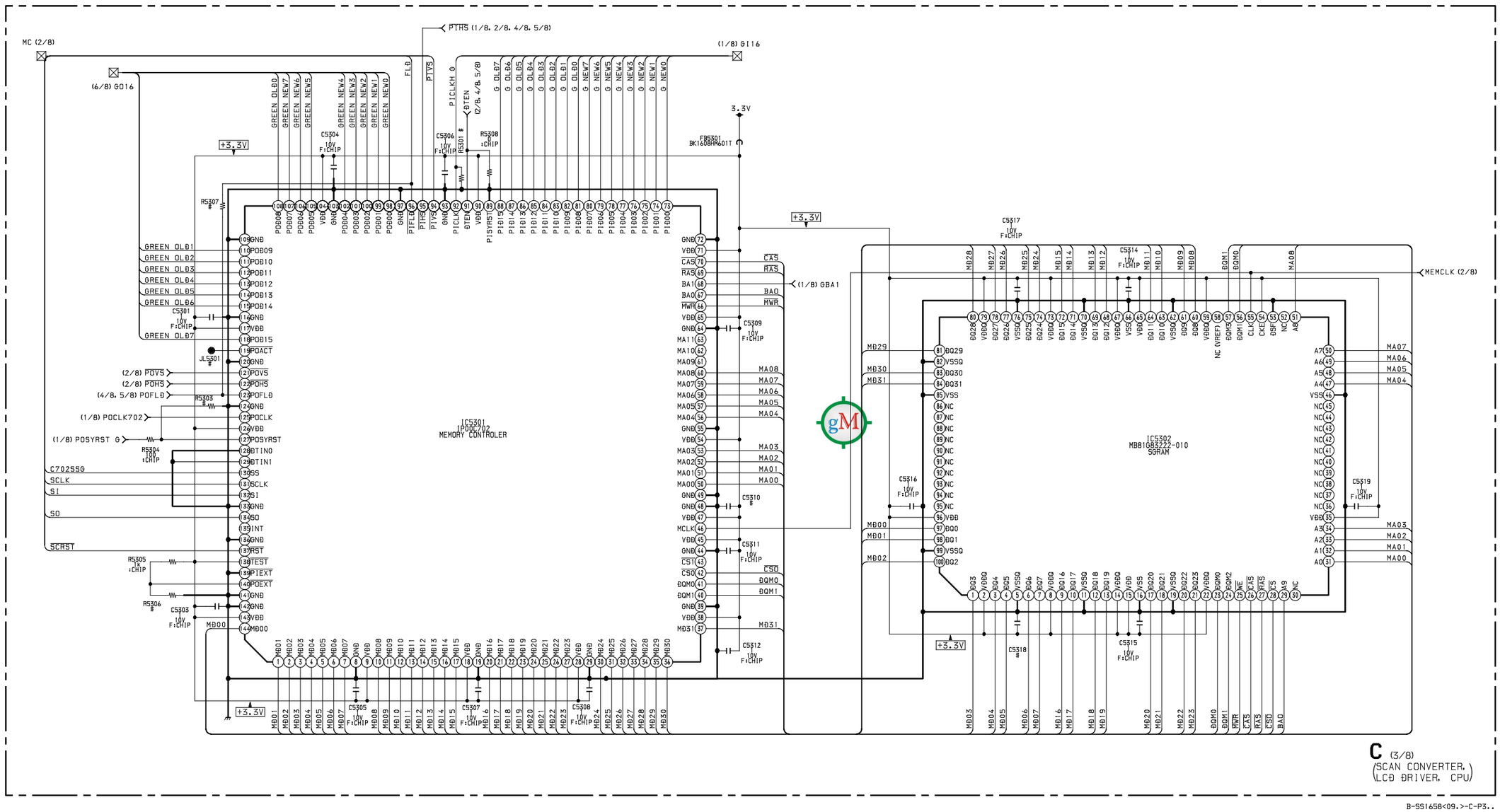
• Refer to page 8-10, 8-11 for Printed Wiring Board • Refer to page 8-20, 8-21 for IC Block Diagrams
• Refer to page 8-21 for Waveforms


CN5009 2P RED :SMD TO THERMAL FUSE
L CONT OUT
L CONT IN
CN5008 3P WHT :SMD TO BALLAST
SCI
GND
FLAG
CN5002 7P WHT :SMD TO GB BOARD CN7103
SUB+5V
SUB+5V
GND (SUB)
GND (SUB)
POWER CONT
FAN PROT
FAN CONT
CN5006 3P RED :SMD TO NF BOARD CN4001
SUB+5V
SIRCS-NF
GND
CN5003 12P WHT :SMD TO GB BOARD CN7107
+16.5V
+16.5V
GND
GND
+13V
+13V
GND
GND
+6V
+6V
GND
+19V
CN5005 5P WHT :SMD TO VISCA
SUB+5V
RXD
TXD
GND
EXT SW
CN5004 8P WHT :SMD TO FLASH
G1
TXD
RXD
RES
VIN
VPP
MD
G2
CN5010 12P :SMD TO H BOARD CN6001
GND
SIRCS NR
KEY0
KEY1
SUB 5V
LIGHT
PSAVE LED
LAMP LED
TEMP LED
POWER LED
D.5V
GND
TO QB BOARD CN2903
CN5011 70P
TO QB BOARD CN2904
CN5012 70P
IC5001 LM2675M-3.3 3.3V DDC
IC5003 TC7W126FU 3 STATE BUF
IC5004 PQ20VZ1U 5V REG
IC5005 PQ20VZ1U 5V REG
IC5006 PQ20VZ5U 15V REG
IC5007 TC74VHC08F AND
IC5008 PC74HC02D-T REMOTE SW
IC5011 HD64F3048F16 CPU
IC5012 MM1170BFB RESET/WDT
IC5013 BR24CF16F FRAM
IC5014 TC74HC07 OC BUFF
IC5015
IC5016 PQ20VZ5U 12VREG
IC5017 TC74LCX74FT (EL) D-FF
Q5001 DTC114EKA-T146 FLASH SW
Q5002 2SC2712YG-TE85L RES SW
Q5003 2SA1213 RES SW
D5012 SEC1201C LED
D5013 SEC1201C LED
C (1/8) (SCAN CONVERTER, LCD DRIVER, CPU)
B-SS1658<09.>-C-P1..

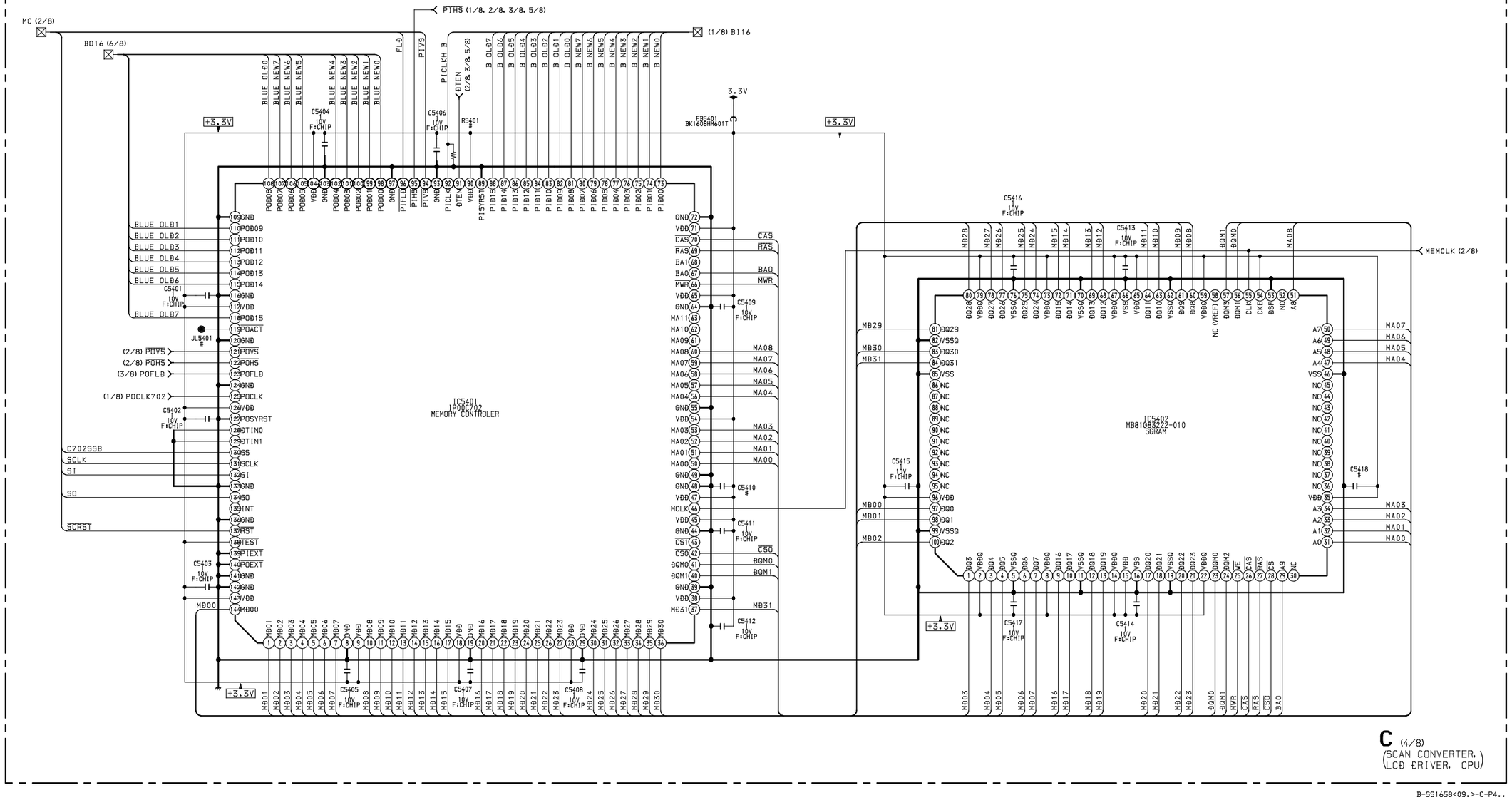
- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams



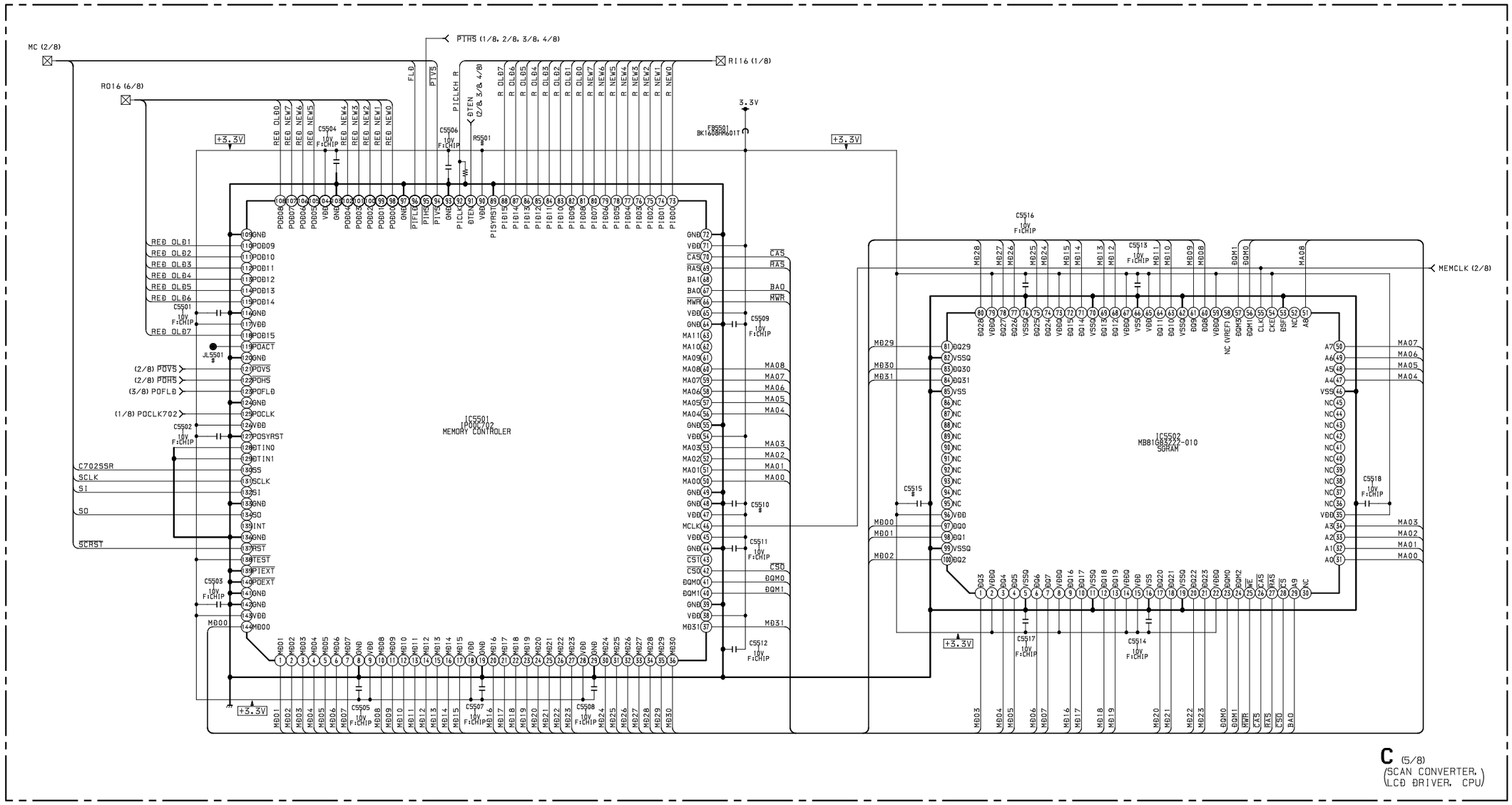
- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams



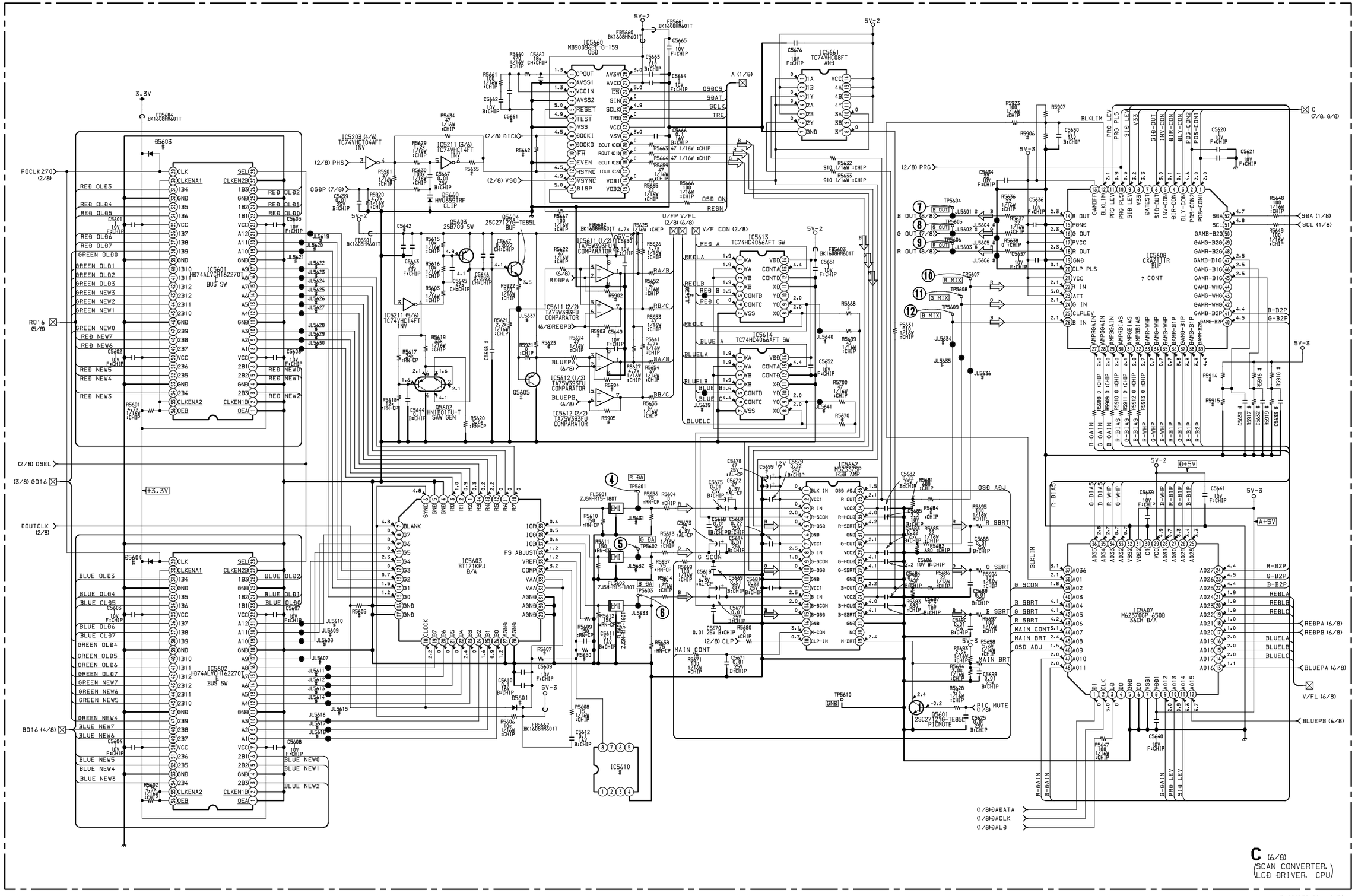
- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams



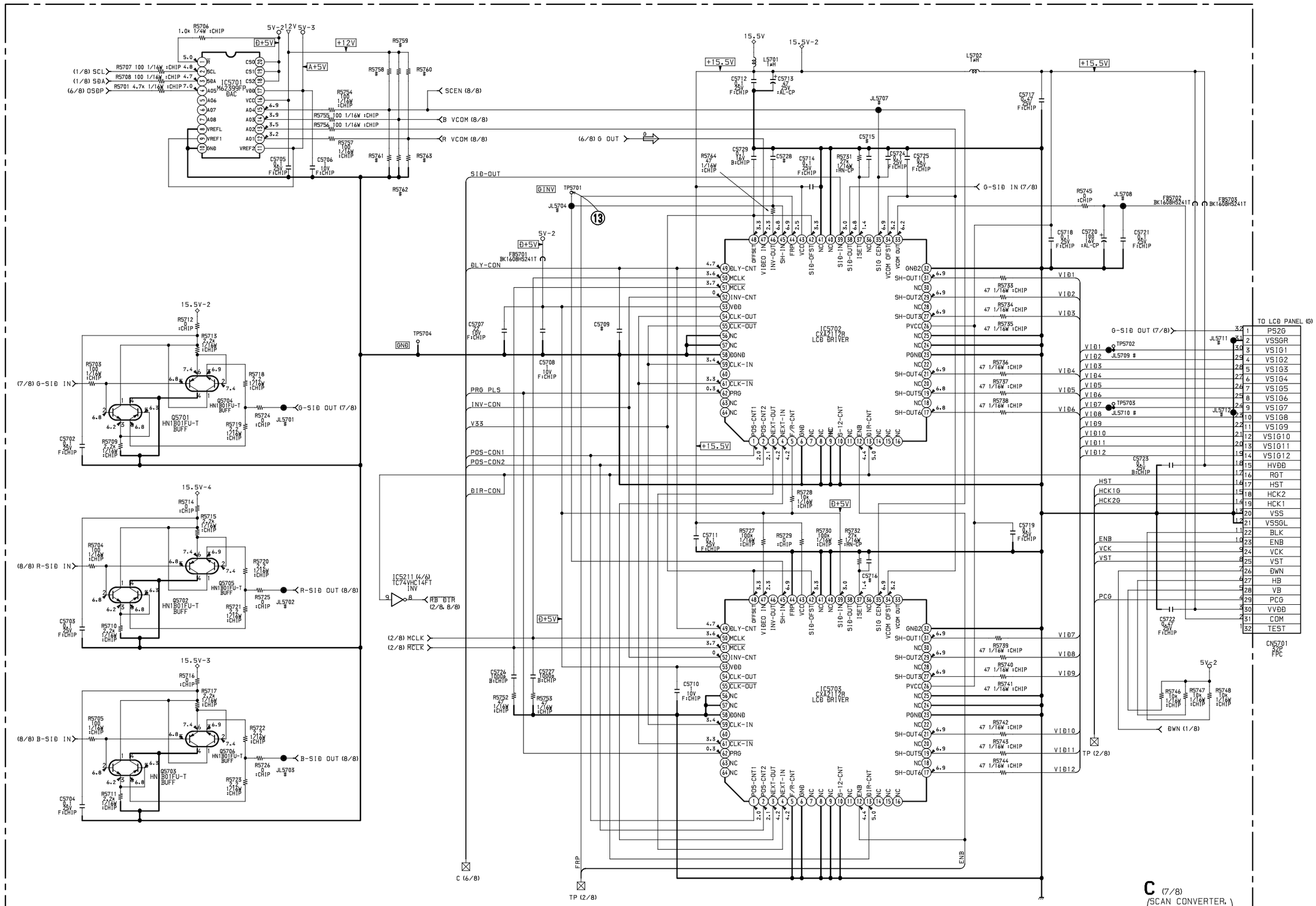
- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams



- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams



- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams



B-SS1658<09.>-C-P7..

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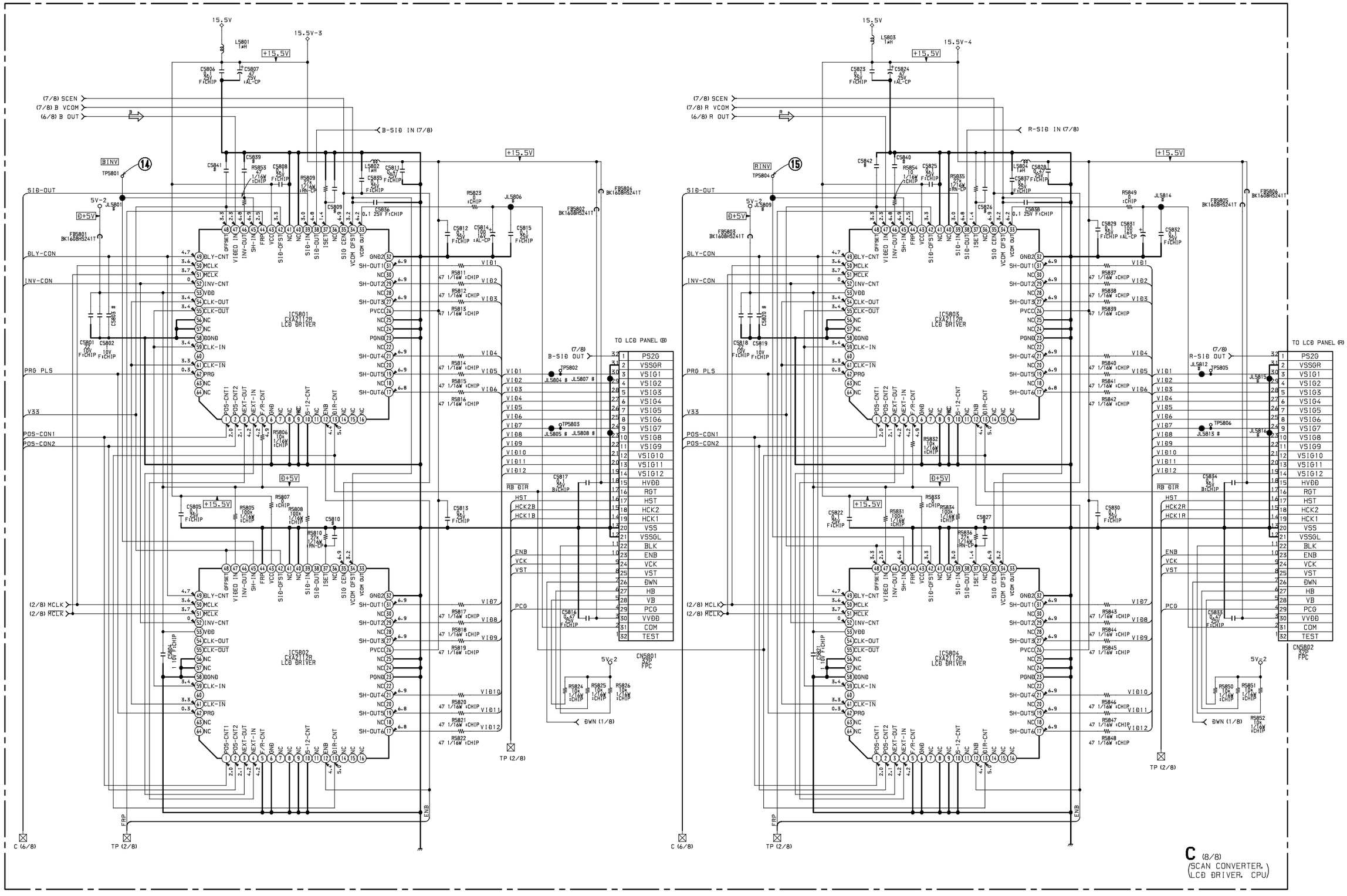
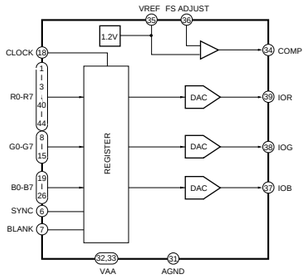
- Refer to page 8-10, 8-11 for Printed Wiring Board
- Refer to page 8-21 for Waveforms
- Refer to page 8-20, 8-21 for IC Block Diagrams

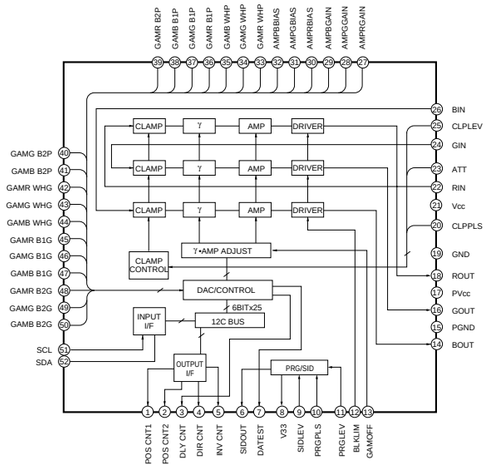


C Board IC Block Diagrams

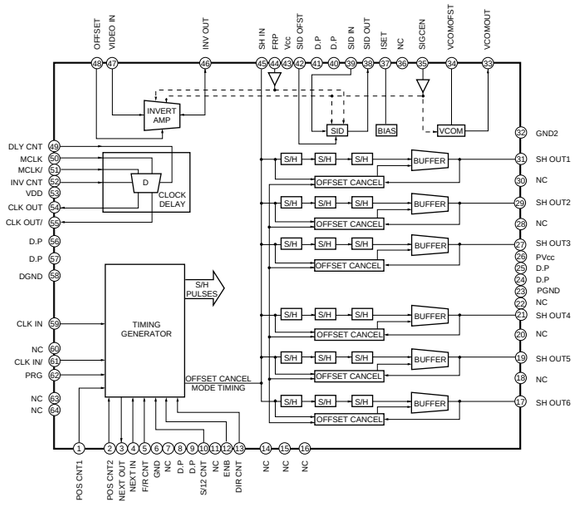
BT121KPJ80-TP (IC5603)



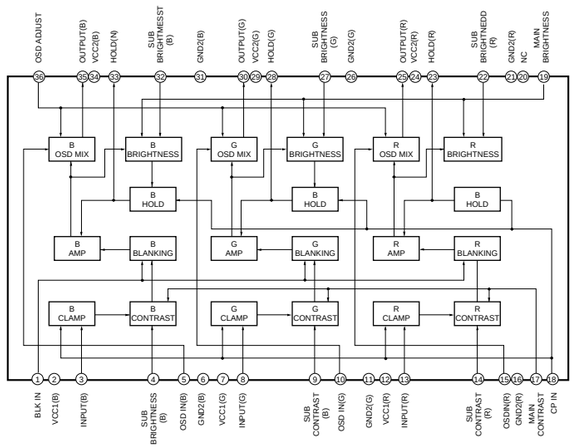
CXA2111R (IC5608)



CXA2112R-T6 (IC5702, 5703, 5801, 5802, 5803, 5804)



M52337SP (IC5662)



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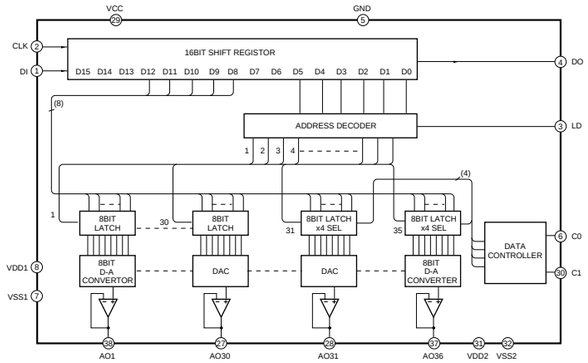

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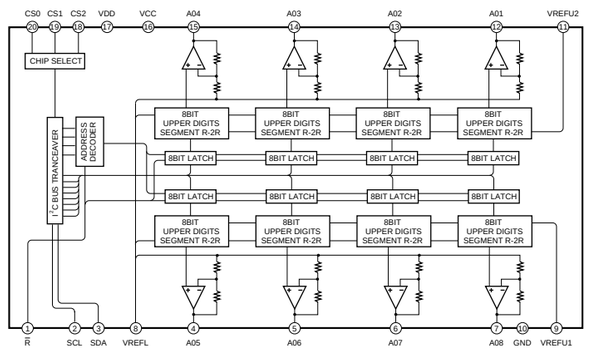

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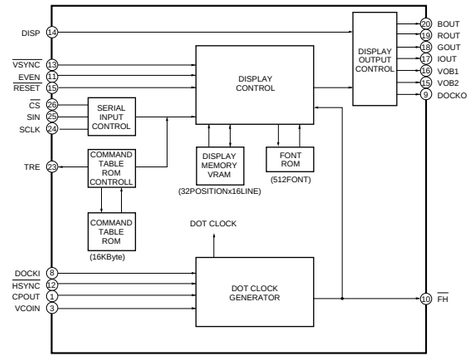

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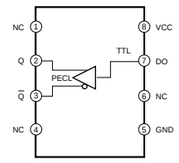
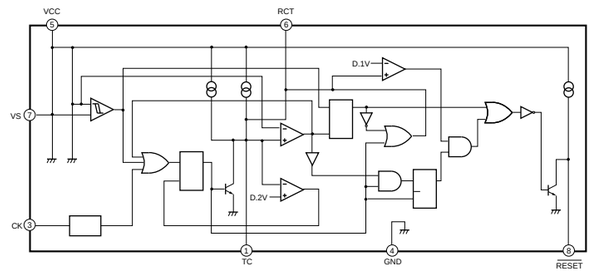
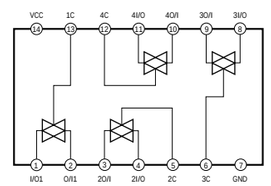


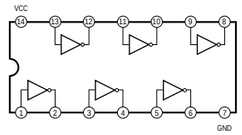
MM1170BFB (IC5012)



TC74HC4066AFT (IC5613, 5614)



TC74LCX04FT (IC5213)



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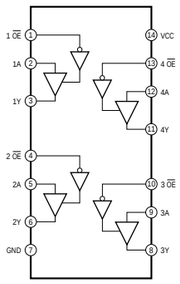

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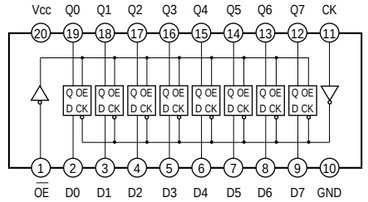

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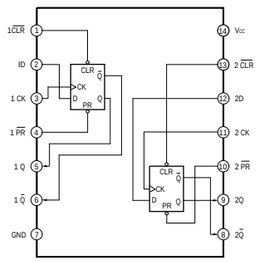
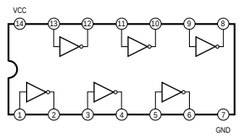


8-20

TC74VHCT04AFT (IC5209)



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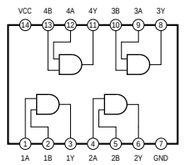
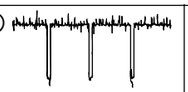
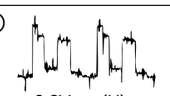
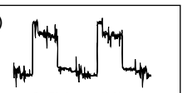
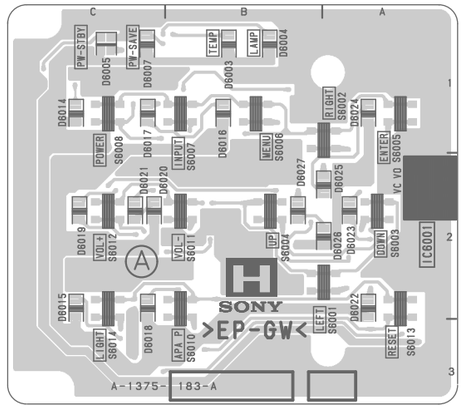


C Board Waveforms

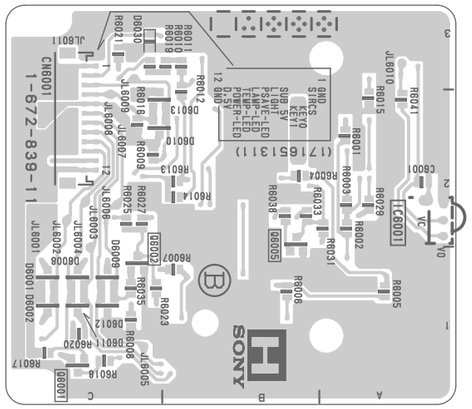
① 5Vp-p (H) TP5005 HS	② 5Vp-p (V) TP5006 VS	③  4Vp-p (H) TP5008 D SYNC	④  0.8Vp-p (H) TP5601 RDA	⑤  0.8Vp-p (H) TP5602 GDA
⑥ 0.8Vp-p (H) TP5603 BDA	⑦ 1.2Vp-p (H) TP5604 B OUT	⑧ 1.0Vp-p (H) TP5605 G OUT	⑨ 1.2Vp-p (H) TP5606 R OUT	⑩ 1.0Vp-p (H) TP5607 R MIX
⑪ 1.0Vp-p (H) TP5608 G MIX	⑫ 1.0Vp-p (H) TP5609 B MIX	⑬ 8.0Vp-p (H) TP5707 G INV	⑭ 8.0Vp-p (H) TP5801 B INV	⑮ 8.0Vp-p (H) TP5804 R INV

8-21



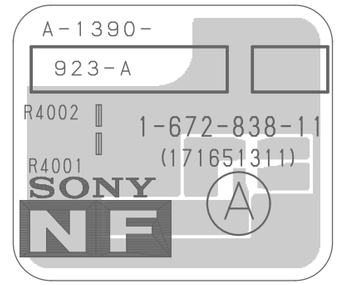
H –A SIDE–

SUFFIX : -11



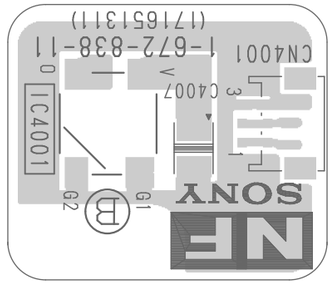
H –B SIDE–

SUFFIX : -11



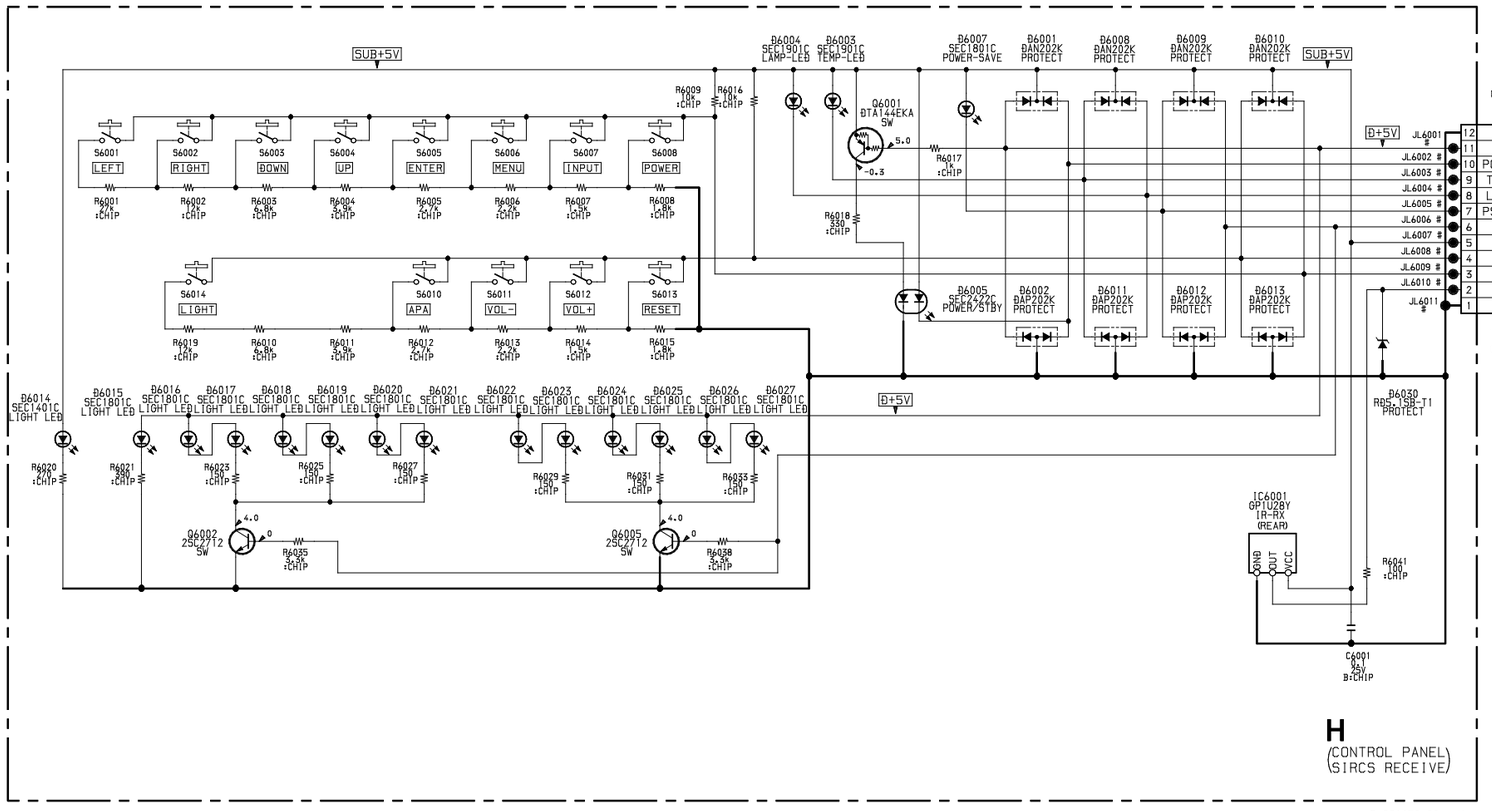
NF –A SIDE–

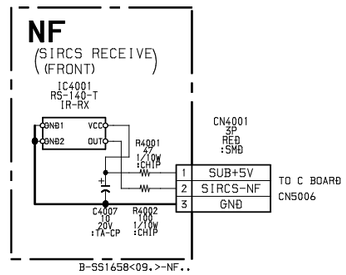
SUFFIX : -11

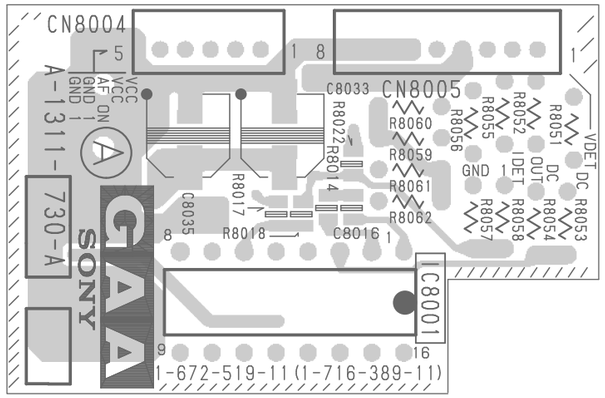


NF –B SIDE–

SUFFIX : -11

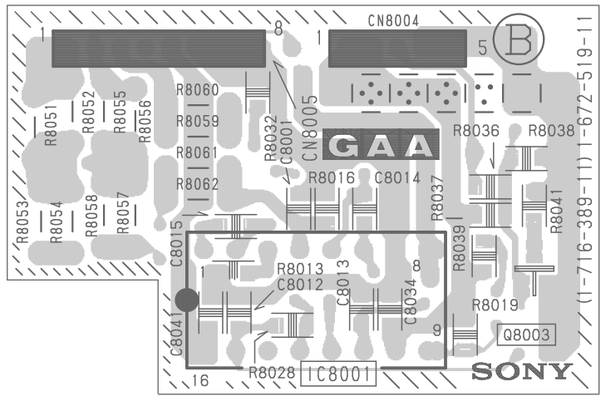






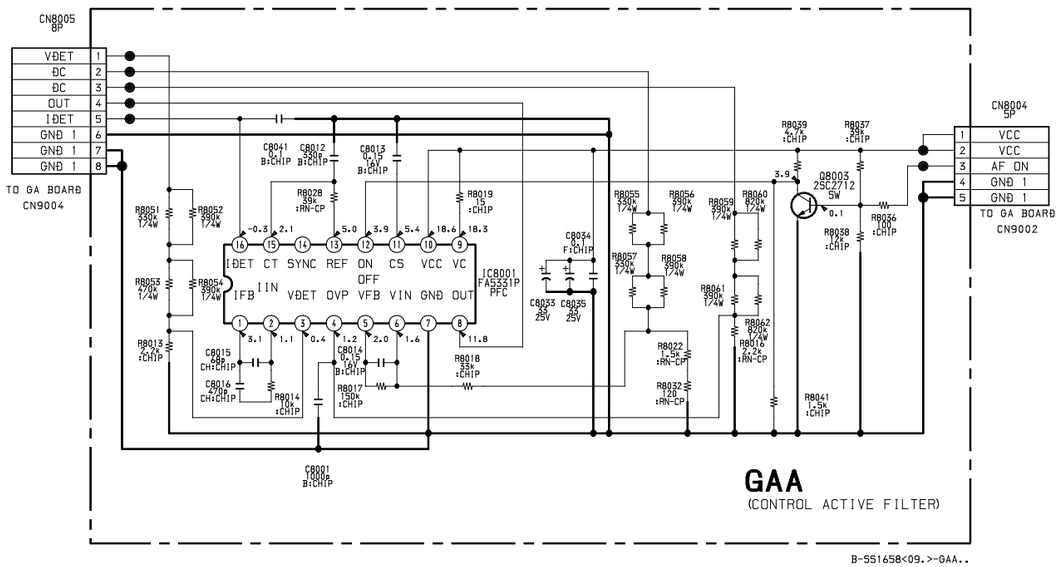
GAA –A SIDE–

SUFFIX : -11



GAA –B SIDE–

SUFFIX : -11



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GA
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1-672-517-11

D9001 *A-2
D9002 *A-3
D9003 *A-2
D9004 *A-1
D9006 *A-2
D9008 *B-2
D9009 *B-2
D9010 *C-2
D9011 *B-1
D9012 *B-1
D9013 *B-1
D9014 *B-5
D9015 *B-3
D9017 *B-5
D9018 *B-3
D9020 *B-3
D9022 *B-4
D9025 *B-2
D9026 *B-3
D9031 *B-2
D9032 *B-2
D9033 *B-4

IC9001 A-2
IC9002 *B-3

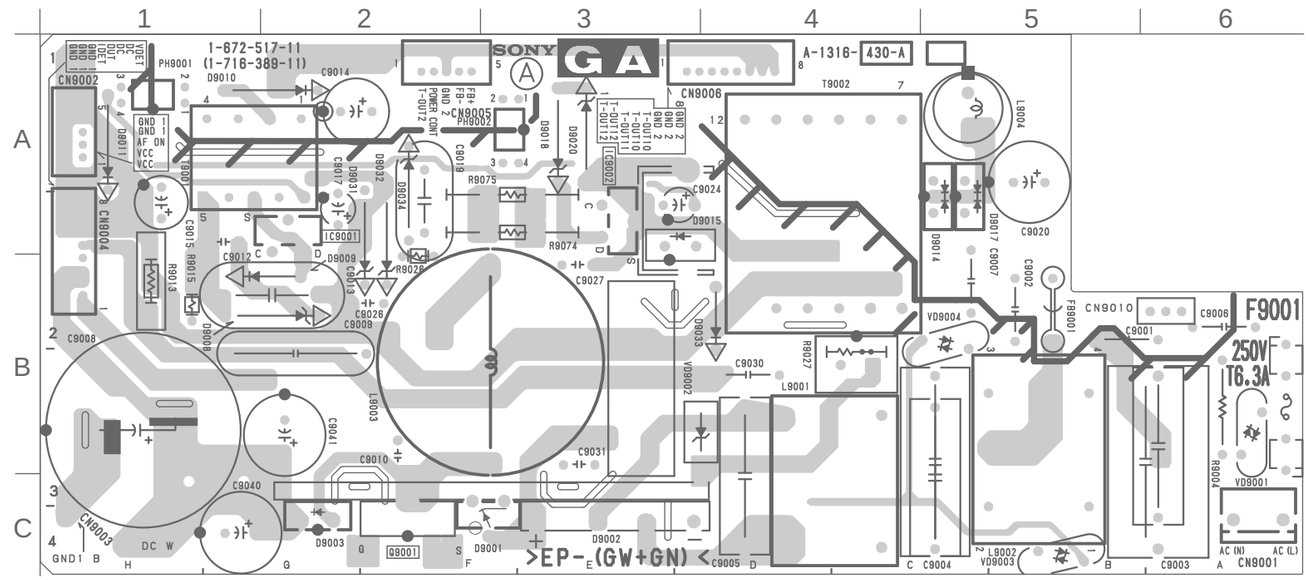
PH9001 *C-1

Q9001 *A-2
Q9003 *B-1

T9001 *B-1
T9002 *B-4

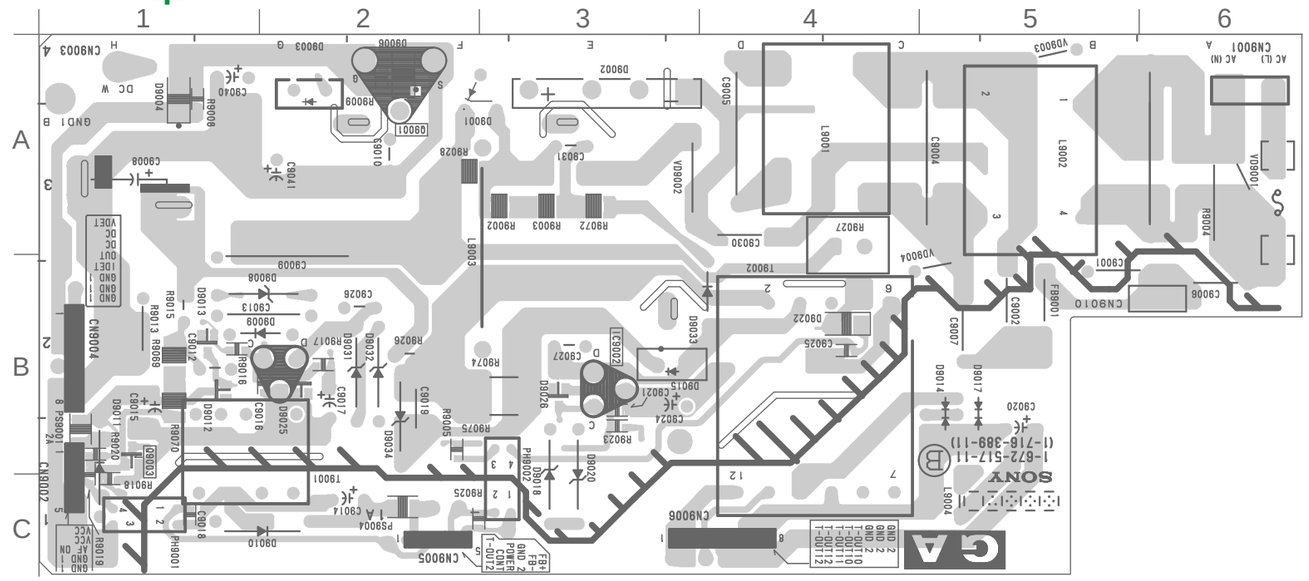
VD9001 *A-6
VD9002 *A-3
VD9003 *A-5
VD9004 *B-5

*:B Side mount



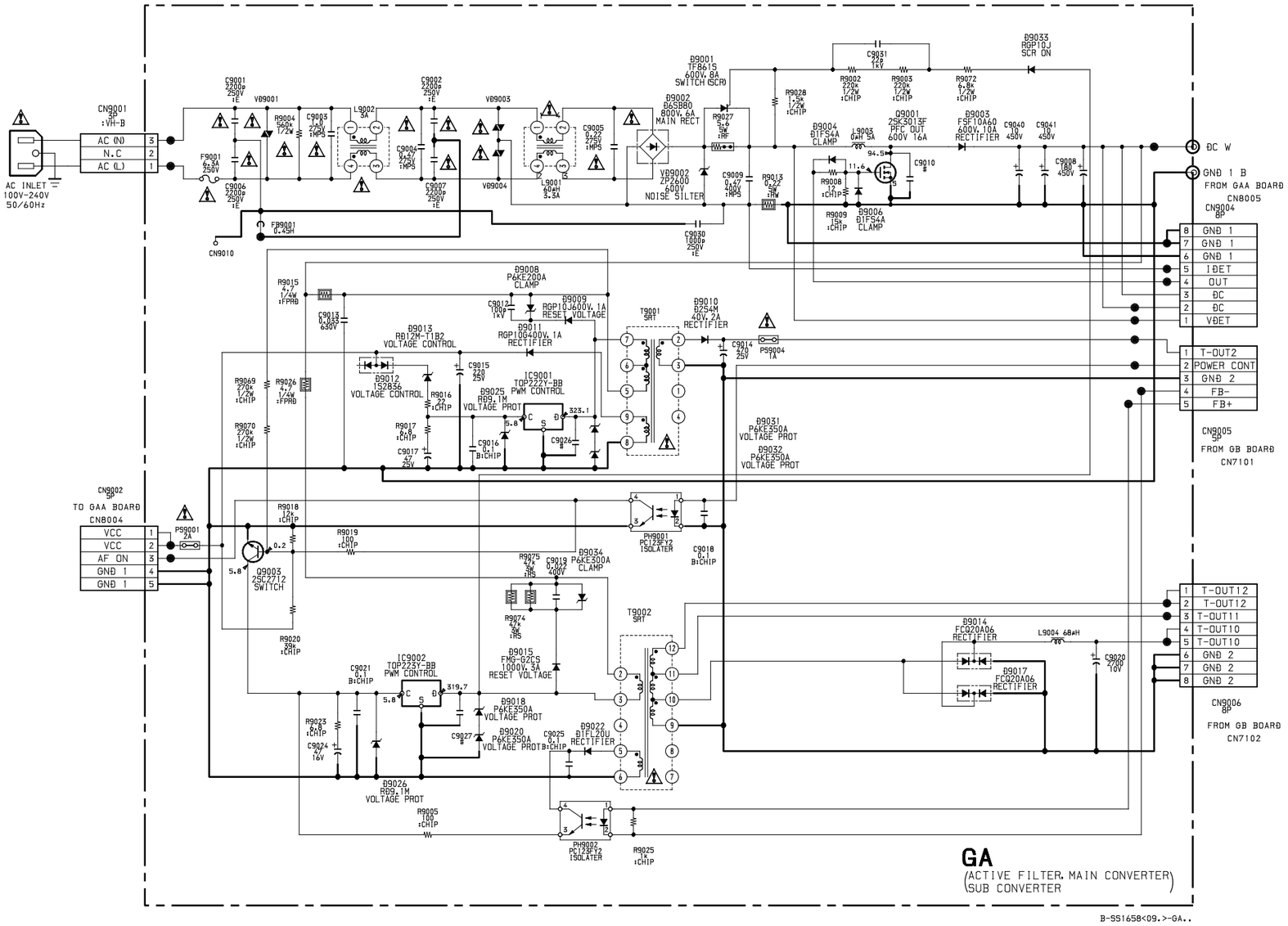
GA –A SIDE–

SUFFIX : -11



GA –B SIDE–

SUFFIX : -11


CN9001 3P :VH-B
AC (N) 3
N.C 2
AC (L) 1
AC INLET 100V~240V 50/60Hz
F9001 6.3A 250V
C9001 2200p 250V :E
C9002 2200p 250V :E
C9003 275V :MPS
C9004 0.47 275V :MPS
C9005 0.22 275V :MPS
C9006 2200p 250V :E
C9007 2200p 250V :E
VB9001
VB9003
VB9004
R9004 560k 1/2W
L9002 5A
L9001 60uH 5.5A
FB9001 0.45H
CN9010
D9001 TF8615 600V, 8A SWITCH (SCR)
D9002 DCS8B0 800V, 6A MAIN RECT
VB9002 ZP2600 600V NOISE SILTER
C9030 1000p 250V :E
R9028 1.5k 1/2W :CHIP
R9027 5.6 5W :RF
R9002 220k 1/2W :CHIP
R9003 220k 1/2W :CHIP
C9031 2.2 1/2 1kV
R9072 6.8k 1/2W :CHIP
D9033 RGP10J SCR ON
D9004 DIFS4A CLAMP
L9003 0uH 5A
Q9001 2SK3013F PFC OUT 600V 16A
D9003 FSF10A60 600V, 10A RECTIFIER
C9040 10 450V
C9041 10 450V
C9008 180 450V
C9010 8
R9008 12 :CHIP
R9009 15k :CHIP
D9006 DIFS4A CLAMP
94.5
11.6
D9008 P6KE200A CLAMP
R9015 4.7 1/4W :FPRB
C9012 1800p 1kV
D9009 RGP10J600V, 1A RESET VOLTAGE
C9013 0.033 630V
D9013 RB12M-T1B2 VOLTAGE CONTROL
D9011 RGP10G400V, 1A RECTIFIER
T9001 SRT
D9010 D2S4M 40V, 2A RECTIFIER
PS9004 1A
C9014 470 25V
D9012 1S2856 VOLTAGE CONTROL
C9015 220 25V
IC9001 TOP222Y-BB PWM CONTROL
R9069 270k 1/2W :CHIP
R9026 4.7 1/4W :FPRB
R9070 270k 1/2W :CHIP
R9016 22 :CHIP
D9025 RB9.1M VOLTAGE PROT
R9017 2.0 :CHIP
C9016 0.1 B:CHIP
C9017 47 25V
C9026 8
323.1
5.8
D9031 P6KE350A VOLTAGE PROT
D9032 P6KE350A VOLTAGE PROT
CN9002 5P TO GAA BOARD CN8004
VCC 1
VCC 2
AF ON 3
GND 1 4
GND 1 5
PS9001 2A
R9018 12k :CHIP
R9019 100 :CHIP
Q9003 2SC2712 SWITCH
0.2
5.8
PH9001 PC123FY2 ISOLATER
C9018 0.1 B:CHIP
D9034 P6KE300A CLAMP
C9019 0.022 400V
R9075 47k 3W :MS
R9074 47k 3W :MS
T9002 SRT
R9020 39k :CHIP
IC9002 TOP223Y-BB PWM CONTROL
C9021 0.1 B:CHIP
319.7
5.8
D9015 FMG-G2CS 1000V, 3A RESET VOLTAGE
D9018 P6KE350A VOLTAGE PROT
R9023 6.8 :CHIP
C9024 47 16V
C9027 8
D9020 P6KE350A VOLTAGE PROT
C9025 0.1 B:CHIP
D9022 EIFL20U RECTIFIER
D9026 RB9.1M VOLTAGE PROT
R9005 100 :CHIP
PH9002 PC123FY2 ISOLATER
R9025 1k :CHIP
D9014 FCQ20A06 RECTIFIER
L9004 68uH
D9017 FCQ20A06 RECTIFIER
C9020 220 16V
CN9004 8P
8 GND 1
7 GND 1
6 GND 1
5 IDET
4 OUT
3 DC
2 DC
1 VDET
DC W
GND 1 B
FROM GAA BOARD CN8005
CN9005 5P
1 T-OUT2
2 POWER CONT
3 GND 2
4 FB-
5 FB+
FROM GB BOARD CN7101
CN9006 8P
1 T-OUT12
2 T-OUT12
3 T-OUT11
4 T-OUT10
5 T-OUT10
6 GND 2
7 GND 2
8 GND 2
FROM GB BOARD CN7102
GA
(ACTIVE FILTER, MAIN CONVERTER)
(SUB CONVERTER)
B-SS1658<09.>-GA..

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GB
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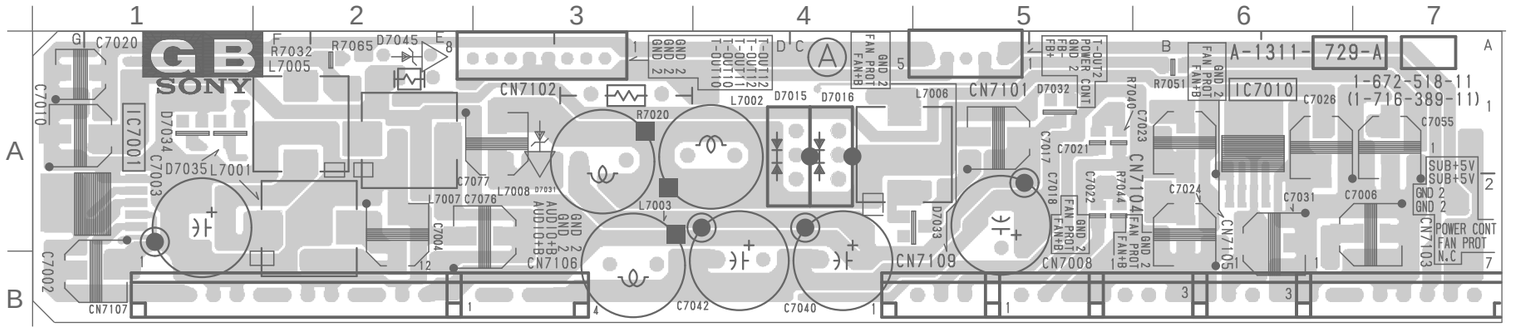
1-672-518-11

D7001 *B-6
D7002 *A-4
D7008 *A-2
D7009 *A-6
D7010 *A-6
D7011 A-4
D7012 *A-3
D7015 *A-4
D7016 *A-4
D7020 *A-6
D7022 *A-5
D7023 *B-2
D7031 *A-3
D7045 *B-2

IC7001 A-1
IC7002 *A-7
IC7005 *A-1
IC7009 *A-1
IC7010 A-6

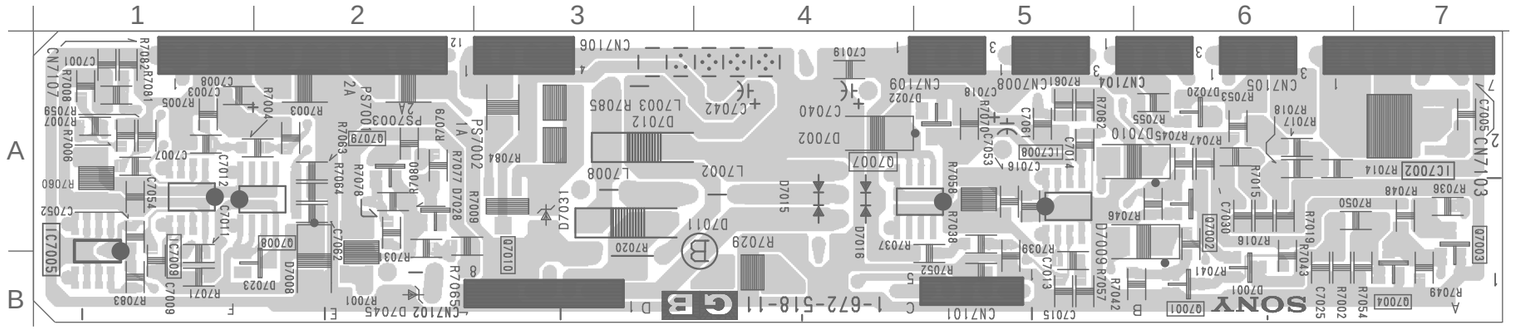
Q7001 *B-6
Q7002 *A-6
Q7003 *A-7
Q7004 *B-7
Q7007 *A-5
Q7008 *A-2
Q7010 *A-3
Q7079 *A-2

*:B Side mount



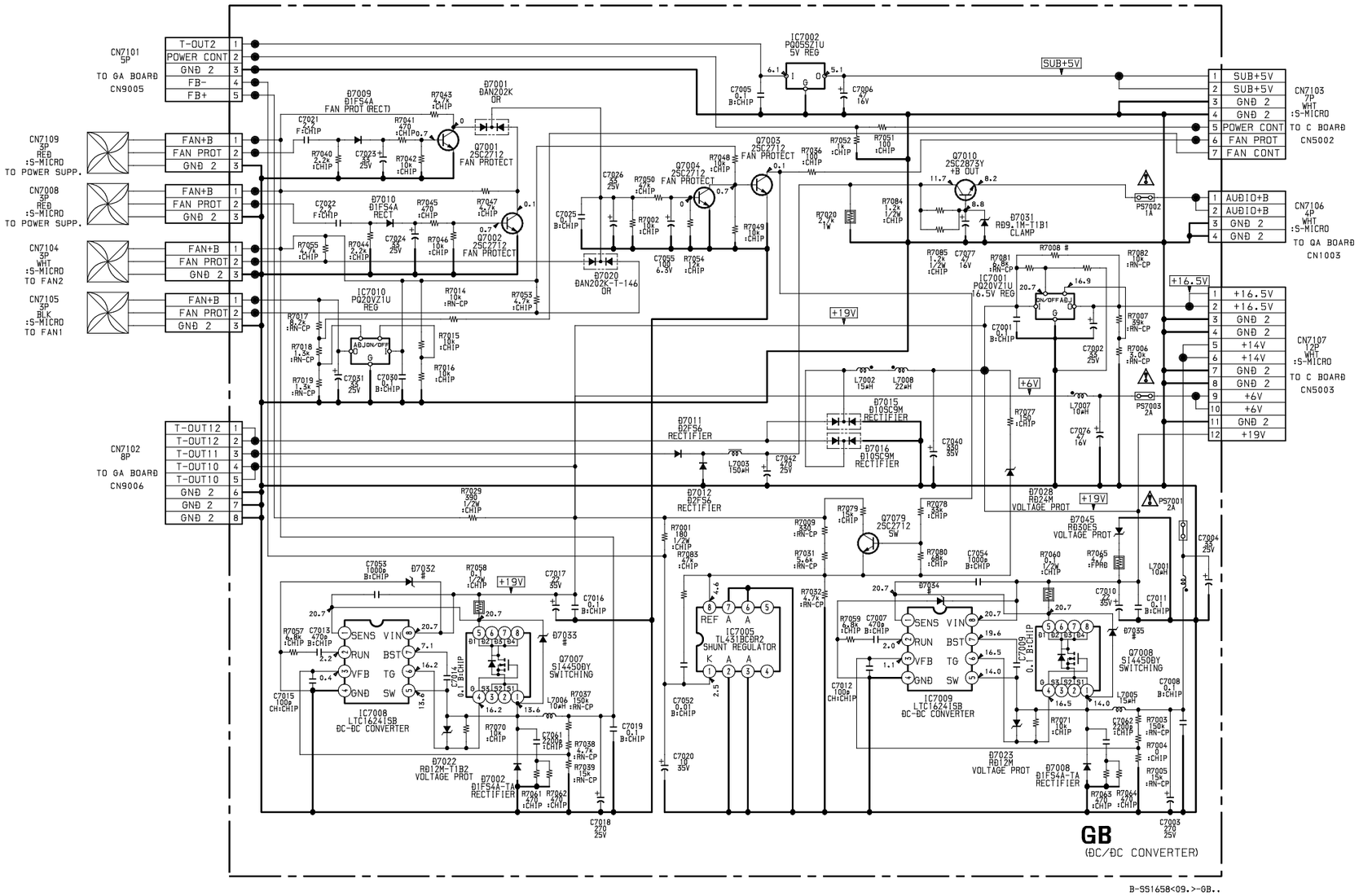
GB –A SIDE–

SUFFIX : -11



GB –B SIDE–

SUFFIX : -11


CN7101 5P TO GA BOARD CN9005
T-OUT2
POWER CONT
GND 2
FB-
FB+
CN7109 3P RED :S-MICRO TO POWER SUPP.
CN7008 3P RED :S-MICRO TO POWER SUPP.
CN7104 3P WHT :S-MICRO TO FAN2
CN7105 3P BLK :S-MICRO TO FAN1
FAN+B
FAN PROT
GND 2
CN7102 8P TO GA BOARD CN9006
T-OUT12
T-OUT12
T-OUT11
T-OUT10
T-OUT10
GND 2
GND 2
GND 2
IC7002 PQ05ZTU 5V REG
SUB+5V
CN7103 7P WHT :S-MICRO TO C BOARD CN5002
SUB+5V
SUB+5V
GND 2
GND 2
POWER CONT
FAN PROT
FAN CONT
Q7010 2SC2873Y +B OUT
B7031 RB9.1M-T1B1 CLAMP
P57002 1A
CN7106 4P WHT :S-MICRO TO GA BOARD CN1003
AUDIO+B
AUDIO+B
GND 2
GND 2
+16.5V
IC7001 PQ20VZ1U 16.5V REG
ON/OFF
CN7107 12P WHT :S-MICRO TO C BOARD CN5003
+16.5
+16.5
GND 2
GND 2
+14V
+14V
GND 2
+6V
+6V
GND 2
+19V
P57003 2A
P57001 2A
+19V
B7028 RD24M VOLTAGE PROT
B7045 RB50ES VOLTAGE PROT
+19V
B7011 D2FS6 RECTIFIER
B7012 D2FS6 RECTIFIER
B7015 D10SC9M RECTIFIER
B7016 D10SC9M RECTIFIER
Q7001 2SC2712 FAN PROTECT
Q7002 2SC2712 FAN PROTECT
Q7003 2SC2712 FAN PROTECT
Q7004 2SC2712 FAN PROTECT
Q7079 2SC2712 SW
B7001 DAN202K OR
B7009 D1FS4A FAN PROT (RECT)
B7010 D1FS4A RECT
B7020 DAN202K-T-146 OR
IC7010 PQ20VZ1U REG
ON/OFF
IC7005 TL431BCBR2 SHUNT REGULATOR
REF A A
K A A
IC7008 LTC1624ISB DC-DC CONVERTER
SENS VIN
RUN BST
VFB TG
GND SW
Q7007 SI4450DY SWITCHING
IC7009 LTC1624ISB DC-DC CONVERTER
Q7008 SI4450DY SWITCHING
B7022 RB12M-T1B2 VOLTAGE PROT
B7002 D1FS4A-TA RECTIFIER
B7023 RB12M VOLTAGE PROT
B7008 D1FS4A-TA RECTIFIER
B7033
B7034
B7035
B7032
B7053
B7054
B7060
B7065
GB
(DC/DC CONVERTER)
B-SS1658<09.>-GB..

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Broadcasting & Professional Systems Company

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